CENTENNIAL HISTORY

of the

SCHOOL OF ARCHITECTURE

1899 - 1970

Material collected and written by Elliot L. Whitaker, Director

School of Architecture, August, 1969

I FOUNDING AND EARLY DEVELOPMENT

Joseph Nelson Bradford was truly the "father" of architectural education at The Ohio State University. Under his leadership were established the Department of Engineering Drawing in 1885, the first classes in Fine Arts in 1886, the Department of Photography in 1890 and the Department of Architecture in 1899. He served as Professor of Architecture from 1899 to 1932 and as University Architect from 1911-1929.

As early as 1888 Professor Bradford suggested Architecture as an appropriate university offering, and in the catalogue of 1896-1897 a "course" in Architecture was listed under Drawing. In 1900 the course in Architecture was extended to a full four-year curriculum leading to the degree Bachelor of Civil Engineering in Architecture, which was first conferred in 1903 on John Peterson, the first graduate.

The first collegiate program in Architecture in the United States was established at the Massachusetts Institute of Technology in 1865. The Ohio State University's program established in 1899 is fourteenth in chronological order following Illinois, Cornell, Syracuse, Columbia, Pennsylvania, Penn State, Carnegie Tech., George Washington, Tulane, Harvard, Armour Institute (I.I.T.), and Notre Dame.

In 1906 a separate Department of Architecture, under Professor Bradford was established and in 1912 the first degree of Bachelor of Architecture was awarded. Up through 1914, 24 graduates had been awarded the degree Civil Engineering in Architecture and among the early graduates at least three returned to the University as teachers and administrators largely responsible for shaping the beginning years of the program in Architecture.

Charles St. John Chubb, C.E. in Architecture, 1904 continued his studies in Architecture at the University of Pennsylvania, and in 1907 was invited by Professor Bradford to join the staff at The Ohio State University as Assistant Professor. In 1913 he was made Professor of Architecture and in 1922 succeeded Professor Bradford as Chairman of the Department, a post he held until 1944. From 1944 he continued his teaching duties until his retirement as Professor Emeritus in 1951.

Howard Dwight Smith, C.E. in Architecture 1907, continued his studies at Columbia and returned to the University where he served as Professor of Architecture from February 1918 to June 1921 and from September 1929 to his retirement in June 1956; concurrenly with his second term of service was his appointment as University Architect (1929-1956) succeeding Professor Bradford.

Wilbert Cathmore Ronan, C.E. in Architecture 1910, completed additional study at the University of Pennsylvania and returned to the University as Instructor in Architecture in 1913. In 1944, as Professor of Architecture, he succeeded Professor Chubb as Head of the then Department of Architecture and Landscape Architecture, a post he held until 1950. He retired in 1957 as Professor Emeritus.

The beginning of architectural education was centered in Brown Hall, completed in 1903, and has been identified continuously through the present day with that building. Interestingly enough, a program of study devoted to the improvement of man's physical environment has never been adequately housed on this campus. As early as 1917, Acting Dean Edwin F. Coddington in his annual report on the College has this to say about Architecture," . . . the situation (physcial space) . . . almost intolerable for that department. In their drawing rooms the

tables are placed so close together that the instructor has difficulty passing between them."

The total budget for the program in Architecture for the year 1913-1914 was $6049.70. This included the salaries of two professors and two instructors; however, the lack of adequate funds did not seem to lessen the determination and dedication of both students and faculty during those early years. The program of study and photographs of the work of students is attached as Appendix F1. (Note: the cover design was executed by Professor Chubb.)

During the first thirty years from 1899 through 1929 the program had produced approximately 200 graduates. The classes were small; total annual enrollments ranged well below 100; the instruction was highly personal and both students and faculty were indeed convinced that Architectural Education was well established at The Ohio State University.

II THE MATURE YEARS

As early as 1918 a parallel four-year degree program in Architectural Engineering was introduced, a program to provide education in the "engineering" aspects of architecture as contrasted to the "design" aspects of a then accepted architectural program. This degree was last listed in the 1937-38 catalogue and the last B. Arch. Engineering degree conferred in 1939. Although the early records are not thought to be entirely accurate, the total number of graduates to receive the degree, Bachelor of Architectural Engineering was between 166 and 171 in this twenty year period. The degree was intended to identify persons, through professional registration as "bridges" or "connectors" between professional registered Architects and Engineers. Recognition by the

two professions has not been clear cut, and during the next decade 1938-1948 the Department offered as an alternative "Design" and "Construction" options under the Bachelor of Architecture degree.

Courses in Landscape Architecture were first offered in 1915 in the College of Agriculture. The degree program was transferred to the Department of Fine Arts, where it was offered for ten years until 1937, when it was transferred to the College of Engineering and made an integral part of the newly named Department of Architecture and Landscape Architecture. Professor Charles Reuel Sutton headed the four-year program leading to the degree, Bachelor of Landscape Architecture from 1937 to the time of his death in 1963.

To be consistent with the five year program in Architecture, a change which had been made in the Department of Architecture in 1930, the program in Landscape Architecture was extended to five years in 1959-1960. The number of total enrollments in Landscape Architecture has continued to be low. Up to 1968 a total of 29 degrees, Bachelor of Science in Landscape Architecture and 136 degrees, Bachelor of Landscape Architecture have been conferred.

During 1956, and climaxing a growing interest of over 20 years within the Department, the Board of Trustees voted to initiate a program of teaching and research in City Planning in the Department of Architecture and Landscape Architecture. Israel Stollman was employed in 1957 to become the first person in charge of the program. Prior to his position as head of the program in City Planning, he had served as a professional planner in Youngstown, Ohio. During the decade following his initial appointment, he saw the program increase in size and scope to national recognition. The first graduate, with the degree Master in

City Planning was Frank So in 1961; and through 1968 a total of 59 degrees had been conferred. Professor Stollman left the School in 1968 to become the Executive Director of the American Society of Planning Officials in Chicago. His position was filled by Professor Laurence Conway Gerckens.

The period of 1930 to 1950 was marked by the events of the Depression and World War II. From a total enrollment in the late Twenties of approximately 235 in both Architecture and Landscape Architecture the figures dropped to an average of slightly over 100 from 1932 to 1942. From 1942 through 1945 the Department, Students and Faculty alike, had literally "gone to war". The total enrollment in 1944 was less than 30 students. From this low, the enrollments skyrocketed from 1947 through 1950 to record highs of almost 400. The G. I.'s returned in unprecedented numbers, many were mature, determined men with families, carrying a full program of outside employment while attending the University full time. Brown Hall was not capable of handling the numbers, and the Department was far from prepared in staff, facilities or budget to cope with this new situation.

In 1949 a committee of concerned alumni investigated the problems of the Department and in a report to the President strongly recommended that the Department be made a College separated from Engineering. This report was received but no immediate steps were apparently taken by the Administration to alleviate the situation.

Meanwhile, beginning in 1941 the National Architectural Accrediting Board came into being and in 1949-50 the Department came due for an official visit by the N.A.A.B. Following the visit in January 1950 the President's office was notified in June 1950 that the Department

had been dropped from the Accredited List of the N.A.A.B.

Following are some quotes from the report:

"As a unit of the College of Engineering, the Department of Architecture has had its share of funds and support during the past five years, but it still does not have enough facilities or staff to provide adequate architectural education."

"The curriculum, both as a printed document and as described by student work and in discussion with the senior faculty, gives little evidence of a coherent attempt to prepare young men for the professional practice of architecture today."

"All architectural students are compelled to spend their first year in a course of study common to all curricula in Engineering. Thus their desire to become architects must overcome a year spent without contact with architectural education or with the faculty in the profession to which they look forward."

"In spite of occupying the same building as the Civil Engineers, the students apparently have little contact with or inspiration from the Engineering Faculty. Certain courses are given by the latter, but with little if any relation to later professional work in architecture. The free hand drawing work is turned over to the Department of Fine Arts, which is itself over-crowded. Here again there is no evidence of recognition that the objectives of study in teaching drawing to architects are significantly different from the objectives of a course for prospective public-school art teachers."

"One of the most serious problems of the Department is inadequate

space. Because of crowded drafting rooms most students have no desk at which to work except during scheduled class periods. . . the majority of students did their work at home. . . This condition may soon be improved because the Department has been assigned another building, adjacent to its present quarters and formerly used as a laundry." (Note: after acquisition, students referred to that portion of Brown Hall Annex as Rinso Hall.)

". . . It is our opinion that something explosive is needed to remedy the situation and give Ohio State the kind of architectural school which it deserves and should have."

The Alumni report had been effective, and the report of the National Architectural Accrediting Board indeed called attention to the need for additional administrative support for Architecture. The Board of Trustees voted to reorganize the Department and in 1950 the School of Architecture and Landscape Architecture, a more nearly antonomous unit of the College of Engineering,came officially into being.

Professor Elliot Leonard Whitaker, a graduate of Massachussets Institute of Technology and a former teacher at that institution, Pennsylvania State College and Syracuse University, was invited to become the first Director of the new School of Architecture and Landscape Architecture. He assumed the post in October 1950.

Following 1950 came a significant period of rebuilding in which faculty, students and alumni took an active and sincere part. Selective admission was accepted, additional space in Brown Hall Annex was assigned, a new curriculum was studied and adopted, the library was enlarged and installed in a new location in Brown Hall. The job of rebuilding was by no means completed, but significant changes had been

made and the University requested in 1953 a visit from the National Architectural Accrediting Board. In June 1953 the President's Office was notified that full accreditation had been accorded to the program in Architecture.

In subsequent regular five year intervals the School has been revisited by N.A.A.B. in 1958, 1963 and 1968 and accreditation has been renewed for the normal five year periods. The problem of adequate space noted continously since 1917 has not been resolved.

In 1953 the N.A.A.B. noted "The Committee understands that expansion of the Engineering College can be expected and probable change and improvement of the School's quarters." Again in 1958 the N.A.A.B. reported, ". . . New architectural facilities would probably be the greatest contribution the Institution could make toward the improvement of the School."

In preparation for the last visit of N.A.A.B. in 1968 the School was asked to respond to the question "What are the immediate facility and equipment needs of the School?" The reported answer was, "Over the past ten years through the use of artificially constrained methods the undergraduate enrollment has been held to a constant figure consistent with the capacity of the present physical plant. Now, new space and equipment are needed to provide for expanded undergraduate enrollments, graduate programs and research."

In 1969 as the School completes its 70th year, and the University approaches its Centennial the School of Architecture continues its program in two of the oldest and least well suited buildings on the campus - Brown Hall 1903 and Brown Hall Annex 1896 (formerly the power plant, and more recently the bus garage and laundry).

Since 1950 the academic programs in all three areas of instruction

have been revised and updated several times. Appended under F2 are copies of the various bulletins describing the courses of study as revised.

In 1966 Architecture offerings were enlarged to accommodate students in graduate study and Professor Henry S. Brinkers was invited to join the staff in charge of the graduate program leading to the degree, Master of Architecture. In 1968 a significant change in academic direction was taken when the faculty voted to withdraw the five-year B. Arch. degree and to initiate a new four-year degree B.S. in Architecture (non professional) followed by the M. Arch., two additional years at the graduate level and the M. Arch. to be designated as the new professional degree replacing the B. Arch.

In 1969 Landscape Architecture elected to initiate a new B.S. in Land. Arch. followed by a new M. Land. Arch. at some future date, again the latter degree replacing the B. Land. Arch. as the first professional degree.

Budgets during this same period have been improved to be at least competitive with other schools in the general locality. Contrasted with the figures available in 1913-14 the total figure for the School including teaching salaries, equipment, supplies, library expenditures, research and travel was $304,211 in 1966-67, an increase of over 50 times in a period of a little over half a century.

Scholarship assistance has improved in assistance designated specifically for use in the School, but is nowhere adequate to provide financial assistance to more than a few students each year. The balance of funds deposited in the endowment funds of the University show the following balances as of June 1968:

Bradford Scholarship	$ 7,300
Merle Robert Maffit Fund	$10,500
Howard Dwight Smith Scholarship	$ 5,600
Charles R. Sutton Funds	$ 2,500

These funds provided in 1968 the total amount of $1272 for Scholarship aid within the School. Two additional funds in the University's endowment funds are the Ohio Housing Fund, established 1949 by gifts from Galen Oman, '20 and others for education and research in housing ($9000-June 1968); and the School of Architecture Endowment Fund established 1965 by gifts from friends, faculty, students and alumni of the School, the income to be used for purposes not provided by the State ($11,400 - June 1968).

Other funds have been made available to the School, but not on a permanent basis. These include several fellowships in City Planning, a special fund from Landscape Architects in The Kentucky-Ohio area, and several prize awards from manufacturers and others for student achievements, generally in the area of design.

Through the generosity of many alumni in their gifts to the Development Fund several projects made possible on a trial basis have now become traditions of the School. One most notable is the Alumni Lecture Series in Architecture commenced in 1952 as one way to interest students, faculty alumni and friends to know more about the School and the professional offerings of its graduates. The list of speakers includes men who have in great measure provided a statement of professional philosophy of the last two decades, and includes:

1952 Pietro Belluschi
1953 Julian Garnsey
1954 Harland Bartholomew
1955 O'Neil Ford
1956 Hugh Stubbins
1957 Karl Van Leuven
1958 Kidder Smith
1959 Grady Clay
1960 William Dunkel
1961 Harry Weese
1962 Pierre Zoelly
1963 Burnham Kelly
1962 Vernon DeMars
1965 Robert L. Geddes
1966 Ian L. McHarg
1967 John E. Burchard
1968 Douglas Haskell
1969 M. Paul Friedberg

In addition to the series mentioned above, the School in the three divisions has sponsored an interesting, visiting lecturer series over the past decade. An annual amount of $3000 for visiting lecturers is now considered a part of each year's operating budget.

Begun in 1960 the annual student inspection trip is now a requirement in the undergraduate curricula of Architecture and Landscape Architecture. Conducted by one or more faculty, the trip is devised as a method to offer students a first hand view of the architecture and landscape architecture of other communities and to encourage visits to professional offices and other schools of architecture. Since its inception, the trips, taken between the Winter and the Spring Quarters have included:

1960 - Washington, Philadelphia and New York
1961 - Chicago
1962 - New York
1963 - Chicago
1964 - St. Louis

1965 - Washington and Philadelphia

1966 - New York and Philadelphia

1967 - Boston

1968 - Atlanta, Georgia

1969 - Upper New York State and Toronto, Canada

In 1956 and in each succeeding year the School has scheduled a Student Honors Dinner at which time student awards, prizes and scholarships have been presented. An important part of the program, which is attended by students, faculty, members of the administration, family, friends and professionals, is the talk by an outstanding professional. In most recent years the student organizations have assumed the responsibility of organizing the dinner, normally held in one of the ballrooms of the Ohio Union, inviting the speaker and conducting the program. Another annual student activity, which has received mixed student enthusiasm and support is the Beaux Arts Ball, usually scheduled during the Winter Quarter. Held off campus, the affair has run the gamut from the sedate costume ball to the raucus, Rock and Roll.

Following the B. Arch degree an increasing number of students have continued their architectural studies with graduate work at this or at other universities. Between 1963 and 1968 a total of 30 students attended Columbia, Harvard, Illinois, Michigan, Minnesota, North Carolina, Pennsylvania, Pratt, Princeton, University of Washington, Virginia, Yale and the Royal Danish Academy.

Perhaps one of the most intriguing new developments in the School is the work in architectural photogrammetry introduced by Professor Borchers. As early as 1956 under a grant from the Lovejoy Fund in the College of Engineering he was assigned to photograph the architecture indigenous to

Ohio as a new resource for the teaching of Architectural History. A direct result of these early efforts led to his subsequent interest in photogrammetry as a means of recording scientifically historic buildings, monuments and other structures for which no drawings existed. Recorded with the Engineering Experiment Station are the several years of Professor Borcher's studies and outside contracts with the Department of the Interior and the Historic Building Survey. His studies are unique in the United States and have served as a model in recording both historic architecture and in anticipating many, possible future studies in the field of building and structural movement. A most interesting result of his studies in photogrammetry has supported his classroom activity in three-dimensional photography. Thus, from original research in architectural photogrammetry, Professor Borchers makes available to his students the important by-product of his research, three-dimensional slide presentations of significant architecture. In addition, he has developed a unique method of projecting three-dimensional color slides in the classroom for limited members of students.

Most full-time faculty members take part in the activities of seminars, conferences and continuing education. Following, are examples of conferences held recently:

Conference or Course	Faculty	Attendance
Protective Construction	Clark, Brinkers	75-150 (annually)
Computer Graphics	Brinkers	250
Hardware Dealers	Tilley	150
Roadside Short Course	Tobey	350-500 (annnually)
Zoning Conference	Stollman	100 (2 held)
Parks and Recreation	Mills	75

Environmental Controls	Whitaker	80
Registration Review	Whitaker	35
Site Planning Review	Gerckens	20
Decision Making Aids	Brinkers	150
Zoning in the Inner City	Mills	25

In terms of concluding an era, and anticipating future developments the faculty of the School in 1967 elected to suppport the change in name from the School of Architecture and Landscape Architecture to the School of Architecture, which became effective on approval of the Board of Trustees in June 1967. Concurrently with this change the faculty elected to support the establishment of three divisions within the School - Architecture, Landscape Architecture and City Planning. The faculty anticipated the possibilities of more visibility and support for the three divisions within the larger framework of the School, now, under University reorganization completed in 1968, an antonomous administrative unit within the College of Engineering. The School, except for fiscal responsibility, now has complete authority to determine admission policies, policies of student academic advancemnt, academic requirements, handling of student records, authority over student dismissals, discipline, and the recommending of degrees. Fiscal responsibility is centered in the College of Engineering, but in all other respects the School now has all the antonomy of a college as originally recommended by the Alumni Committee in 1949.

Anticipating the completion of 20 years of service to the University in 1970, Elliot Whitaker on May 1, 1969 offered his resignation as Director of the School of Architecture to become effective on June 30, 1970.

III CURRENT STATUS AND FUTURE PLANS

The School of Architecture (AHR) in 1969-70 is an antonomous unit within the College of Engineering, and consists of three divisions - Architecture, Landscape Architecture and City Planning.

Degrees offered are B. Arch. (withdrawn after Spring Quarter 1972): B.S. in Arch., B. Land. Arch. (withdrawn after 1972); B.S. in Land. Arch; M. Arch., and M.C.P.

Faculty and Staff are as follows:

School of Architecture

Director	Elliot L. Whitaker
Secretary	George Lewis Tilley
Administrative Asst.	William K. Harris

Division of Architecture

Chairman	Elliot L. Whitaker (Professor)
Professors	Herbert Baumer (Emeritus)
	Perry E. Borchers
	George M. Clark
	Harry E. Phillian
	Wilbert C. Ronan (Emeritus)
	George L. Tilley
	Frank E. Wilson (Emeritus)
Associate Professors	Wayland W. Bowser
	Henry S. Brinkers
	Gilbert H. Coddington
Assistant Professors	Wayne E. Dipner
	Michael Passe (Adjunct)
	Paul E. Young
Instructor	Alfred E. Berthold

Lecturers	George W. Acock
	Juris Dambrans
	George P. Enesey
	Clifford W. MacCoy
	Andrew J. Macioce
	James F. Riley
	Fred Saunier
	Thomas O. Schnell
	James K. Sherer
	W. Philip White

Faculty on other budgets

Bletzacker, Richard W. (Assoc. Prof.) Civil Eng.

Korda, Peter (Professor) Engineering Mech.

Katz, Bertram S. (Assoc. Prof.) Division of Art

Division of Landscape Architecture

Chairman	George B. Tobey (Assoc. Prof.)
Instructors	Thomas J. Nieman
	William F. Rock Jr.
Lecturers	to be appointed

Division of City and Regional Planning

Chairman	Laurence C. Gerckens (Professor)
Professor	Israel Stollman (visiting)
Associate Professor	W. Raymond Mills
Assistant Professor	Larz T. Anderson
	James R. Crozier (Adjunct)
	Frank L. Elmer
Instructor	Jean P. Hansford

Lecturers	Samuel P. Boyd
	Charles A. Dambach
	Kline L. Roberts
Secretaries	Mary Hennick
	Pamela Staten
Librarian	Mary Pence

Physical space assigned to the School includes the following:

Brown Hall and Brown Hall Annex

Offices	105 106	School	Whitaker, Hennick
	107 108	City Planning	Gerckens, Staten
	100 100V	Landscape	Tobey
	100 A	Architecture	Borchers
	100 B	Architecture	Young
	113	Landscape	Nieman, Rock
	115 A	Architecture	Baumer
	118	Architecture	Brinkers
	119 119 A	Architecture	Tilley, Harris
	214 A	Architecture	Coddington
	217	City Planning	Anderson
	218	City Planning	Elmer
	218 A	City Planning	Mills
	310	Architecture	Clark, Dipner, Passe
	103 Annex	Architecture	
	104 Annex	Phillian	
	107 Annex	Bowser	

Drafting Rooms	115 (3rd Arch.), 116 (2nd Arch). 117 (3rd Arch.), 202 (4th Arch.), 214 (Land. Arch.), 215 (5th Arch.), 306 307 (City Planning), 307 (Arch.), 100 and 106 Annex (1st Arch.).
Classrooms	202 102 Annex
Special	114 Exhibition, 103 Library, 119 B Storage, 212 Seminar, 208 Storage, 311 Student Office, 108 Annex Storage, 105 Annex Lounge.

Budgets for 1968-70 are as follows:

Faculty (12 months)	$ 96,552.00
Faculty (9 months)	180,540.00
Specials	40,070.80
Civil Service	15,017.60
Operating	20,400.00
Equipment	4,000.00
	$356,580.40

Enrollments anticipated for 1969-70 are:

Architecture

1st year (University College)	110
2nd year (B.S. in Arch.)	120
3rd year (B.S. in Arch.)	23
3rd year (B. Arch.)	37
4th year (B. Arch.)	38
5th year (B. Arch.)	19
Specials	17
M. Arch. (Graduates)	5
Total	259 (110)

Landscape Architecture

1st year (University College)	10
Upper years	34
Total	34(10)

City and Regional Planning

1st year	38
2nd year	9
Total	47
Total in School	340 (460)

IV. Appendix

A. Department Chairmen

1899-1922 - Joseph Nelson Bradford

Chairman, Department of Architecture

1922-1944 Charles St. John Chubb

Chairman, Department of Architecture

Note: Landscape Architecture added in 1937.

1937-1944 - Department of Architecture and Landscape Architecture.

1944-1950 Wilbert Cathmore Ronan

Chairman, Department of Architecture and Landscape Architecture.

1950-1970 Elliot Leonard Whitaker

Director, School of Architecture and Landscape Architecture

Note: Department changed to School 1950; name changed to School of Architecture effective Summer Quarter 1967.

Administrative Officers

1937-1963 Charles Reuel Sutton

Professor of Landscape Architecture and in charge of Landscape Architecture

1963-1970 George B. Tobey, Jr., Associate Professor of Landscape Architecture and in charge of Landscape Architecture.

1967 - Chairman, division of Landscape Architecture

1957-1968 Israel Stollman

Professor of City and Regional Planning

and in charge of City & Regional Planning,

1967 - Chairman, division of City and Regional

Planning.

1968-1970 Laurence Conway Gerckens

Professor of City and Regional Planning

and Chairman, division of City and Regional

Planning .

1967-1970 Elliot Leonard Whitaker

Director and Professor of Architecture and

Chairman, division of Architecture

1968-1970 George Lewis Tilley

Secretary, School of Architecture

B. Faculty with twenty years or more of service

Joseph Nelson Bradford	1899-1932	33 years
Charles St. John Chubb	1904-1951	47 years
Wilbert Cathmore Ronan	1913-1957	44 years
Galen Francis Oman	1923-1950	27 years
Herbert Baumer	1922-1956	34 years
Howard Dwight Smith	1918-1921 1929-1956	30 years
Charles Reuel Sutton	1932-1963	31 years
Perry Elmer Borchers, Jr.	1947-1970	23 years
Harry E. Phillian	1947-1970	23 years
George Lewis Tilley	1947-1970	23 years
Frank E. Wilson	1949-1969	20 years

George B. Tobey, Jr.,	1950-1970	20 years
Elliot Leonard Whitaker	1950-1970	20 years

(B1) Faculty with 15 or more, but less than 20 years of service

George Mason Clark	1951-1970	19 years
Michael Passe	1954-1970	16 years
Marion V. Packard	1936-1937	19 years
	1941-1942	
	1948-1965	

C. Major Publications of Faculty

Publications are on file in the College of Engineering

D. Outstanding Graduates

1. Graduates (and Faculty) who have been elected to Fellowship in the American Institute of Architects.

Graduates	Year of Graduation	Citation
Armstrong, Harris		Design
Smith, Howard Dwight	1907	Public Service
Kempton, Ralph C.	1912	Public Service
Taylor, Walter A.	1921	Education
Macelwane, John P.	1922	Public Service
Brown, Arthur T.	1927	Public Service
Coddington, Gilbert	1931	Design
Severinghaus, John Walter	1931	Design
Yost, L. Morgan	1931	Design
Light, Hermann C.	1932	Public Service
Musson, Noverre	1932	Design & Literature
Bentz, Carl	1935	Public Service
Faculty (non-graduates)		
Baumer, Herbert		Design & Education
Whitaker, Elliot L.		Education

2. Graduates who have followed a career in Architectural Education

Graduates		School
Chubb, Charles St. John	1904	Ohio State
Smith, Howard Dwight	1907	Ohio State
Ronan, Wilbert C.	1910	Ohio State
Field, Wooster B.	1911	Ohio State
Shumaker, Ross	1916	North Carolina State
Stockdale, Reed	1917	University of Cincinnati

Graduates		School
Oman, Galen F.	1920	Ohio State
Deam, Arthur F.	1921	Illinois & Penn State
Taylor, Walter A.	1921	Ohio U.
Osborne, Milton	1922	Manitoba & Penn State
Krob, Russell M.	1923	Penn State & Columbia
Grady, James H.	1929	Georgia Tech.
Line, Ralph M.	1929	Illinois
Coddington, Gilbert	1931	Ohio State
Tilley, George L.	1937	Ohio State
Phillian, Harry	1938	Ohio State
Canfield, Thomas H.	1939	Cornell
Thompson, Victor K.	1941	Stanford
Borchers, Perry E. Jr.,	1941	Ohio State
McNulty, Thomas F.	1947	M.I.T.
Pierce, David A.	1947	Cols. Tech. Inst.
Dipner, Wayne	1951	Ohio State
Kindig, Robert	1952	Univeristy of Colorado
Montalto, James J.	1952	Kent State
Jakob, John H.	1953	Arizona State
Young, Paul Jr.,	1955	Ohio U. & Ohio State
Shultz, George Park	1955	Cornell & University of Washington
Grube, Richard Luther	1959	Penn State

3. Graduates who have outstanding careers in architecture or in the building industry.

Allen, Harry G.	1910	State Architect, Ohio
Sims, Ray	1911	Formerly Sims, Cornelius & Schooley Columbus, Ohio
Morrow, Roger B.	1914	Designer, Columbus, Ohio
Moore, Downie W.	1915	Architect, Columbus, Ohio
Carter, Marion	1917	Office of University Architect
Ely, Dwight F.	1917	Chairman of Alumni Group
Pettit, Walter E.	1920	Pettit, Oman, Meinhardt & Cleland, Columbus, Ohio
Linch, William E.	1921	University Architect, O.S.U.
Badgeley, Clarence D.	1923	Architect, New York City
Ross, Marion F.	1923	Office of Garwick & Ross Columbus, Ohio
Schooley, John P. Sr.	1923	State Architect - Architect, Columbus, Ohio
Wood, Paul L.	1923	Architect, New York
Karlsberger, Louis F.	1924	Architect, Columbus, Ohio
Mellenbrook, Earl H.	1925	Mellenbrook, Foley & Scott Berea, Ohio
Crumley, George D.	1926	Tibbals, Crumley & Musson Columbus, Ohio
Royce, Robert R.	1926	Architect, Columbus, Ohio
Scott, Franklin G.	1926	Mellenbrook, Foley & Scott Berea, Ohio
Croce, Chester	1927	Architect, Columbus, Ohio

Freytag, Ferdinand E.	1927	Freytag & Freytag Sidney, Ohio
Riddle, Wilbur D.	1927	Architect - G. E. Nela Park Cleveland, Ohio
Lyle, Joseph M.	1928	Now a Senior Member - Hake, Hake & Hake Cincinniati, Ohio
Barber, Charles Merrill	1929	Architect & Engineer Cleveland, Ohio
Kidd, Walter H.	1929	Executive Vice President T. Towe Price & Associates
Barber, Charles L.	1930	Architect, Toledo, Ohio
Freshwater, Fayne	1930	Freshwater & Harrison Columbus, Ohio
Garwick, J. Parker	1930	President - Garwick & Ross Columbus, Ohio -Dist. Alum.
Harman, Ralph H.	1930	Architect, Springfield, Ohio
Parris, Fred P.	1930	In partnership firm Richmond, Va.
Atkinson, Ralph R.	1931	Contractor, Columbus, O.
Knowlton, Auston E.	1931	Contractor, Bellefontaine, O.
Loney, Robert S.	1931	Federal Employee retired Navy Bureau of Housing Architectural Coordinator
Inscho, C. Curtis		Architect, Columbus, Ohio
Dix, Ralph G. Jr.		Architect, Canton, Ohio
Brooks, T. W.	1932	Architect, Columbus, Ohio
Brown, William S.	1932	Architect, New York
Tibbals, Alfred Todd	1932	Architect, Columbus, Ohio

Armstrong, Timothy	1933	Architect, Columbus, Ohio
Hartley, Robert W.	1933	Vice President Brookings Institute Washington, D. C.
Larimer, Richard M.	1933	Former Head of Dept. Public Works, Columbus, Ohio
Stepanian, Stephen	1933	Architect, California
Eesley, Will	1935	Architect, Marietta, Ohio
Rovtar, Leo S.	1935	Senior Member, Dan Carmichael Columbus, Ohio
Shupe, Hollie W.	1936	University Architect Former Professor of Engineering Drawing O.S.U.
Pleasant, Lawrence M.	1940	Royce & Pleasant, Columbus O.
Zaugg, Mrs. Thomas	1942	Architect, Mansfield, Ohio
Miller, C. Howard	1943	Architect, California
Zaugg, Thomas G.	1945	Architect, Mansfield, Ohio
Freytag, Karl	1947	Freytag & Freytag Sidney, Ohio
Crawfis, Donald James	1948	Marr, Knapp & Crawfis New Philadelphia, Ohio
Knapp, James F.	1948	Marr, Knapp & Crawfis New Philadelphia, Ohio
Beall, Burtch	1949	Architect, Salt Lake City
Brubaker, Leland	1949	Brubaker & Brandt, Cols. O.
Fling, Russell S.	1949	Structural Engineer Fling & Eaman Inc., Cols. O.
Gilfillen, William W.	1949	Wright & Gilfillen Columbus, Ohio

Wilson, Dixon	1949	Architect, Lansing, Mich.
Foley, James J.	1950	Architect, Columbus, Ohio
Turner, Charles W.	1950	Turner & Dambrans, Cols. O.
Urban, Keith P.	1950	Urban & Calabretta, Cols. O.
Bassett, William	1951	McDonald, Cassell & Bassett Columbus, Ohio
Brandt, Kent	1951	Architect, Brubaker & Brandt Columbus, Ohio Texnikoi Award
Brown, Paul P.	1951	Architect, Dayton, O.
Burris, James	1951	Burris & Edwards, Marion, O.
Calbretta, Samuel	1951	Urban & Calabretta, Cols. O.
Cassell, Robert Earl	1951	McDonald, Cassell & Bassett Columbus, Ohio
Edwards, Robert R.	1951	Burris & Edwards Marion, Ohio
Galayda, George	1951	Architect, Detroit, Michigan
Hayes, Earl	1951	Architect, Portsmouth, O.
Hunter, Robert H.	1951	Architect, Vermont
Layne H. Neal	1951	Former Executive Director Structural Clay Products Columbus, Ohio - Executive Secretary, Architects Society of Ohio
Levin, Richard D.	1951	Architect, Dayton, Ohio
Milosevich, Dan D.	1951	Milosevich & Trautwein Columbus, Ohio
Murray, Richard E. Jr.	1951	Active in A.P.X. Columbus, Ohio

Nitschke, Charles	1951	Architect, Columbus, O.
Schackne, David Jr.	1951	Former School Architect Columbus, Ohio
Schackelford, John	1951	Marble Inst. Vermont
Trautwein, Henry B.	1951	Architect Trautwein & Milosevich Columbus, Ohio
Eiselt, Richard H.	1952	Architect, Columbus, Ohio
Garvin, W. L.	1952	Campus Planner, Harvard U.
Head, John W.	1952	Architect, Dayton, Ohio
Schooley, John P. Jr.	1952	Architect, Columbus, Ohio
Wright, Fred E.	1952	Wright & Gilfillen Columbus, Ohio
Eschliman, Richard W.	1953	Architect, Columbus, Ohio
Hagely, John R.	1952	Battelle, Columbus, Ohio
Meyers, Robert H.	1953	Architect, Holroyd & Myers Columbus, Ohio
Granzow, Ted	1957	Architect, Granzow & Guss Columbus, Ohio
Guss, Robert D. Jr.	1957	Architect Granzow & Guss, Cols. O.
Blunden, William A.	1958	Architect, Cleveland, Ohio
Stull, Donald L.	1961	Architect, Cambridge, Mass.
Trott, Richard W.	1961	Architect, Trott & Bean Columbus, Ohio
Bean, James H.	1962	Architect, Trott & Bean Columbus, Ohio
Acock, George W.	1963	Architect, Columbus, Ohio

Eyerman, Thomas J.	1963	Architect, Chicago, Ill.
Trees, Douglas F.	1965	Architect, Columbus, Ohio
White, William P.	1965	Architect, Columbus, Ohio

4. Graduates in Landscape Architecture

Zepp, Erwin	1928	Former Head, Ohio History Society, Columbus, Ohio
Chambers, Walter L.	1929	Chairman Dept. Landscape Arch. University of Michigan
DeWald, Ernst L.	1931	Landscape Architect Cleveland, Ohio
Packard, Marion V.	1935	Landscape Architect Columbus, Ohio
Wigginton, Brooks	1937	Landscape Architect FASLA Wheeling, Va.
McGinnis, Richard W.	1949	City Planner
Freiheit, Harold R.	1951	Head, Dept. of Parks Columbus, Ohio
Bassett, James	1952	Landscape Architect Texnikoi Award
Ramsey, Dean	1953	Landscape Architect, O.S.U.
Strong, Richard	1957	Landscape Architect and Educator University of Toronto
Labrenz, James A.	1957	Landscape Architect Columbus, Ohio
Boyd, Samuel	1958	Planner, Columbus, Ohio
Fenton, Carol (Welker)	1963	City Planner

5. Graduates in City and Regional Planning

Cunning, Jack Stanley	1962	Director, Local Planning Div. Tennessee State Planning Comm. Nashville Tennessee
Sayler, David Allen	1962	Senior Consultant, P.P.B.S. Peat, Marwick, Mitchell & Co. New York City, New York
Drummond, Norman John	1963	Director of Planning Lake County Regional Plng. Comm. Waukegan, Illinois
Gray, Robert N. Jr.	1963	Chief, Research & Analysis Dept. of Planning Metro, Wash. Council of Govts. Washington, D. C.
Grossman, Robert Daniel	1963	Associate Partner Harland Bartholomew & Assoc. Chicago, Illinois
Misrati, Ahmed, Ali	1963	Deputy Director General Research & Design Division Director of Housing Tripoli, Kingdom of Libya
Thyagarajan, Sambamurthy	1964	Chief of Planning Studies Detroit Reg. Transp. Study Detroit, Michigan

Binetsky, Richard N.	1965	Chief, Tech. Coordination & Program Review, Division of State and Regional Planning Trenton, N. J.
Carr, Eugene E.	1966	Director Community Redevelopment Comm. Idaho Falls, Idaho
Fisk, Donald	1969	Director of Planning City of Sandusky, Ohio

E. Historical material related to faculty

1. Joseph Nelson Bradford

   a. Bradford Scholarship

   b. Bradford Letters

   c. Bradford Memorial 1860-1943

2. Howard Dwight Smith

   a. Dispatch Article 6.30.57

   b. Letter to Jury of Fellows A.I.A.

   c. Smith Memorial 1886-1958

3. Charles St. John Chubb Memorial 1881-1959

4. Charles Reuel Sutton

   a. Recommendation for teaching award

   b. Charles R. Sutton Memorial 1890-1963

5. Wilbert Cathmore Ronan - Citation for teaching

6. Herbert Baumer

   a. Recommendation to Jury of Fellows A.I.A and notes on Architectural Education by Herbert Baumer.

   b. Citation for the Baumer Paper

F. Historical material related to School

1. Ohio State University Bulletin 1910 "Illustrating and describing the work of the Department of Architecture".

2. Bulletins of the College of Engineering and the School of Architecture - 1949-50, 1952-53, 1957-58, 1960-61, 1963-64, and 1969-70, describing the curricula.

3. Student Honors Program 1966,67,68,69.

APPENDIX E 1

JOSEPH NELSON BRADFORD

THE OHIO STATE UNIVERSITY
HOWARD L. BEVIS, *President*
COLUMBUS

DEPARTMENT OF ARCHITECTURE
AND LANDSCAPE ARCHITECTURE
CHARLES ST. J. CHUBB, A.I.A., *Chairman*
Architecture
HERBERT BAUMER, A.D.G.F., A.I.A.
WILBERT C. RONAN, A.I.A.
HOWARD DWIGHT SMITH, A.I.A.
GALEN F. OMAN, A.I.A.
CARL E. MEINHARDT, A.I.A.
Landscape Architecture
CHARLES R. SUTTON, A.S.L.A., F.A.A.R.
MORRIS E. TROTTER, JR., A.S.L.A., F.A.A.R.

BUY DEFENSE STAMPS

Joseph Bradford Scholarship Is Sought to Honor Professor

Faculty Members and Friends Have Started Subscriptions To Establish Fund.

A movement to honor Joseph N. Bradford, professor emeritus of architecture at Ohio State university, was launched this week by members of the architectural profession.

Contributions to establish a Joseph N. Bradford scholarship in architecture, to be given annually, have been started. It is expected that an award of at least $100 will be made each year, starting June 1, to a "talented and worthy student" chosen by a committee consisting of members of the faculty, one alumnus, and one representative of the American Institute of Architects.

Joined in the tribute to Professor Bradford, first head of the department of architecture at Ohio State, are faculty members, alumni, practicing architects, and other friends of the long-time faculty member.

Established Departments

Professor Bradford, who resides at 55 East Oakland avenue, has the distinction of having established two departments at the university, photography and architecture. He also served as university architect from 1911 to 1929, during which time 44 buildings were added to the campus.

Graduate of Ohio State in 1883, he has served under every president of the university. He was given emeritus status in 1930 after being an active member of the faculty for 47 consecutive years. However, he did not "retire." He has continued to visit the campus regularly in connection with his work of organizing a photographic history of the university. This history, carefully catalogued, contains more than 4000 negatives.

His hobbies over the years have been photography and sketching in oil. As far back as 1892 he won a cash prize for a photograph he sumbitted in a competition conducted by the Bausch and Lomb Optical Company. In recent years, since being relieved from active duty on the campus, he has found more time to indulge in his sketching.

BUY DEFENSE BONDS

ESCAPED CONVICT BACK

LONDON, OHIO, FEB. 14. — (AP).—So he could give himself up at the prison farm from which he escaped last Aug. 13, Lovell Horsley, 36, of Cincinnati paid his bus fare from Seattle and arrived here yesterday, Supt. W. F. Amrine of the prison said Horsley, who fled with two other inmates, was serving a term for assault to rob.

JOSEPH NELSON BRADFORD
55 EAST OAKLAND AVENUE
COLUMBUS, OHIO

Professor Galen F. Oman,
Ohio State University,
Department of Architecture.

My dear Oman:

This letter acknowledges the receipt of the copy of your letter to Mr. Oscar L. Thomas, assistant Executive Secy of the Ohio State University Development Fund.

I feel deeply honored and greatly pleased to learn of this Architectural honor bestowed upon me.

I trust that this perpetually established recognition of my efforts will be a stimulus to worthy future students of Architecture.

To my friends connected with this Scholarship, established while I am still living, I extend my sincere thanks.

Cordially yours
Joseph N. Bradford

Feb. 10, 1942.

JOSEPH NELSON BRADFORD
55 EAST OAKLAND AVENUE
COLUMBUS, OHIO

Professor Galen F. Oman,
Department of Architecture,
Ohio State University.

My Dear Oman:

I sincerely thank you for the interest you have taken in my behalf to secure the establishment of an Architectural Scholarship bearing my name.

My appreciation of this honor is intensified for the reason of the fact that you as a dear friend and scholar in architecture under my charge.

I have always held you in high esteem and have followed you in your success.

Wishing you a successful future I am

Cordially yours

Joseph N. Bradford

JOSEPH NELSON BRADFORD
55 EAST OAKLAND AVENUE
COLUMBUS, OHIO

Dear Professor Chubb:

Illness has confined me to my home for the past several weeks. This has delayed my reply to your very fine and much appreciated letter of may 5th in regard to the Scholarship in Architecture which has been established in my name.

This tribute to me from my co-workers and Alumni in Architecture is greatly appreciated. It is one of the most happy events of my life. And the fact that this honor is bestowed upon me while I am still living adds much to my pleasure.

I wish that I could grasp the hand of all connected with the development of this fine idea.

I am pleased to have the names of the young men who have been awarded the first scholarship for 1942-43 and I will write to Mr. C. Howard Miller of Columbus, Ohio and to Mr. James S. Donaldson, of Portsmouth Ohio who was named as his Alternate.

Cordially yours

May 11th 1942.

Joseph N. Bradford

THE OHIO STATE UNIVERSITY
HOWARD L. BEVIS, *President*
COLUMBUS 10

DEPARTMENT OF ARCHITECTURE
AND LANDSCAPE ARCHITECTURE
CHARLES ST. J. CHUBB, A.I.A., *Chairman*
Architecture
HERBERT BAUMER, A.D.G.F., A.I.A.
WILBERT C. RONAN, A.I.A.
HOWARD DWIGHT SMITH, A.I.A.
GALEN F. OMAN, A.I.A.
CARL E. MEINHARDT, A.I.A.
Landscape Architecture
CHARLES R. SUTTON, A.S.L.A., F.A.A.R.
MORRIS E. TROTTER, JR., A.S.L.A., F.A.A.R.

April 12, 1944

Dear Fellow Alumnus of the Department of Architecture:

The Department is getting along very much like any other business under the stress of war. Here, too, the man power shortage is critical and here, too, women are replacing men as students of architecture. Of the faculty those still on the job are Chubb, Ronan, Smith, Sutton and Meinhardt. Lt. Col. Baumer and Capt. Oman, both on leave, are stationed at Patterson Field, Dayton. Trotter, also on leave, is in Dayton with the Army Engineering Corps. Packard is with Curtiss Wright in Columbus, and Buck is with the Bureau of Yards and Docks, Navy Department, Washington.

Most of you probably know that Professor J. N. Bradford passed away on December 13 last. Enclosed herewith is a memorial resolution, written by Professor Chubb and recently adopted by the Engineering College, which is sent you as background justification for the establishment of the

JOSEPH N. BRADFORD MEMORIAL SCHOLARSHIP IN ARCHITECTURE

It is in the hope of arousing your interest and support of the above scholarship that this letter is sent you and as a supplement to the appeal shortly to be sent you by the Alumni Association, setting forth the objectives of the Alumni Development Fund.

The Scholarship is now called the Joseph N. Bradford Memorial Fund which seeks to provide a senior scholarship annually for the outstanding junior selected by the faculty.

C. Howard Miller held the scholarship in 1942-43 but by unanimous agreement no award was made for 1943-44 because nearly the entire junior class was called into the army last April, and it was thought that a scholarship should be reserved for one of these on his return to complete his studies.

To date 28 contributors have donated to the fund in the amount of $304 to which has been recently added $250 from undesignated gifts to the Development Fund. There is now a balance of $454 in the J. N. Bradford Fund deposited with the State Treasury where it draws 6% interest. It is desired to make the scholarship self sustaining. To do so will require $1,700 which is a very modest amount when compared with other such scholarship funds administered in other Schools of Architecture. Michigan has just announced a gift of $25,000 to provide two scholarships of $325 each. On our plan of financing such a gift would provide two $750 scholarships.

To date there have been twenty-eight contributors to the fund of whom only twenty-four are alumni of the Department's 476 graduates. In other words, only 5% of our graduates have so far contributed to this worthy cause. Will you not join this loyal and greatly appreciated minority?

The credit for the idea of a scholarship honoring the memory of Professor Bradford belongs to Capt. Galen F. Oman, who, when Secretary of the Department took the time to have it set up as a project of the Alumni Development Fund, and served as contact man between the Department and the officers of the Fund. As his successor, this duty devolves upon me and I was happy to write recently to Capt. Oman to tell him of the additional $250 allotment to the Bradford Memorial Fund. Oman passed the good news on to Baumer who replied, "Why wouldn't this be a good time to have a drive for this fund since many have more money now, at least those in war work, than ever before?" To back up his suggestion Baumer stated that he will match the first $100 that comes in. That's the kind of spirit it takes. Every graduate has an interest in the welfare of the Department and Ohio State. Please let us hear from you, your thoughts, and what you are doing.

Sincerely yours,

Carl E. Meinhardt

Carl E. Meinhardt
Sec'y, Dept. of Architecture

P.S. Enclosed you will find a Development Fund pledge card earmarked for the J. N. Bradford Memorial Fund. Please note that any contribution is a proper deduction from your Federal Income tax return.

Deeply grieved, the Faculty of the College of Engineering again pauses in its deliberations to do honor to the memory of another of its pioneer educators who has passed from among us.

Professor Bradford was born in Coloma, California on April 3, 1860 and there spent his boyhood and received such schooling as the public schools of that early date afforded. His parents moved to Columbus about the time the Ohio Legislature passed "An Act to Establish and Maintain an Agricultural and Mechanical College." Taking advantage of this newly organized educational opportunity, he matriculated as a student in 1877, only four years after the University was established. For two years he pursued his studies in what was then called the preparatory course. In the autumn of 1879 he transferred to the regular course and graduated in June 1883 with the Degree in Mechanical Engineering, only two years after the Department of Mechanical Engineering was established, his being the second such degree granted by the University.

During his senior year and for a time following graduation he served as draftsman for the Ohio Geological Survey under Edward Orton, State Geologist and first President of the University. The next two years he served in the Motor Power Department of the Pennsylvania Railroad until the autumn of 1885 when he was appointed by the University as an Assistant in Mechanical Engineering and Drawing. It should be noted that this appointment anti-dated the establishment of the Engineering College by ten years. Promotions to Assistant Professor and Associate Professor of Drawing came in 1890 and 1893. In 1899 he became Professor of Architecture and Drawing, at which time the curriculum in Architecture was established, and in 1906 when Engineering Drawing became a separate department the designation of Drawing was dropped from Professor Bradford's title. During the 21 years he taught "drawing" he found time to broaden his education by self-study in the related fields of painting, photography and architecture, of which the latter ultimately became his life work. His early contribution to the Engineering College was that of the pioneer teacher in the establishment of the Departments of Engineering Drawing, Photography and Architecture. He also was the first to hold the office of the University Architect.

In 1906 his title was again changed to that of Professor of Architecture to which was added that of University Architect in 1912. His most enduring contribution to the development of the University was in the administration of the office of the University Architect which he held until 1930 when he retired as Emeritus Professor of Architecture. From 1885 to 1930 is a span of forty-five years and this represents the longest term of active service of any teacher or other employee in the history of the University. Nor did his service discontinue with retirement. For many years he had collected photographic records of important University events and personalities. Upon retirement the Trustees requested him to add to and organize this material as a "Photographic History of the University." This assignment has been devotedly carried on for the past thirteen years and is now available to all who seek information concerning University events which have all but passed out of memory.

While serving as University Architect, Professor Bradford prepared the plans and supervised the construction of nearly fifty of the buildings now on the campus beside many additions and alterations to older buildings. Among the more important of his buildings should be here noted the Archaeological and Historical Museum, Brown Hall, Robinson Laboratory, Botany and Zoology Building, Horticulture and Forestry Building, Campbell Hall, Pomerene Hall, Shops Building, Chemistry Building, Power House, Mack Hall, Commerce Building, Administration Building, Hamilton Hall, Starling-Loving Hospital, Arps Hall, and the Engineering Experiment Station.

These in themselves constitute a worthy memorial to the man who designed them. His real contribution to the development of the campus, however, was in the preparation of a plan presenting a comprehensive scheme for an orderly development which, as he said in his report to the Trustees, provided for the "grouping of buildings carrying related work and was yet sufficiently elastic to permit the meeting of unforeseen future problems." Those of us who recall the disordered campus plan of 1910 will recognize the improvement in the campus of today.

During his teaching years Professor Bradford carried on a limited private architectural practice. Perhaps the most interesting example of this work being the Ohio Building at the Jamestown Exposition built in 1907. While serving as University Architect he was frequently called into consultation by other colleges on building problems.

The foregoing factual statement of material accomplishment fails utterly to reveal those qualities of character and personality which endeared him to all with whom he lived and worked. He was held with veneration in the affections of his students for his kindly patience as teacher and for his interest in their professional success after they were graduated. As a testimony of their affection and respect the Alumni of the Department of Architecture in 1941 established the Joseph Nelson Bradford Scholarship in Architecture, which recognition moved and pleased him deeply. In 1919 when Alpha Rho Chi Fraternity was established in the department this student group quickly honored him with election to membership. When Omega Chapter of Sigma Xi was established here in 1898 he was honored by his colleagues by election as one of its charter members. Professional recognition came to him in 1922 when he was elected President of the Columbus Chapter of the American Institute of Architects.

Throughout his life he took an active interest in art and was for some years a member of the Paint and Clay Club in Columbus, an organization of local artists. In the Alumni Records he lists "Outdoor Sketching" as his hobby. He loved nature and captured it in all its moods and color with his deft brush in either oil or water color. The pages of Howe's "History of Ohio" are enlivened with his crisp pen sketches.

The Faculty of the College of Engineering here records its deep sense of loss in the death on December 13, 1943 of Joseph Nelson Bradford, Emeritus Professor of Architecture. As student, teacher, architect and Emeritus Professor, his connection with the University extended over a period of sixty-six years, marked by devotion to duty, loyalty, and modesty over his very real accomplishment. No group of students ever received more friendly encouragement than did those fortunate enough to have classes under his guidance. Of the Engineering College he helped fashion and lay its very corner-stone and we of the College and University in honoring his memory today may appropriately borrow the well-known epitaph from the tomb of Sir Christopher Wren in St. Paul's Cathedral, London -

"If you would seek his monument look about."

APPENDIX E 2

HOWARD DWIGHT SMITH

Architect Smith stands before the stadium that was his first major project at OSU.

MASTER

By HOWARD HUNTZINGER

HOWARD DWIGHT SMITH has run the architectural gamut at Ohio State University—from the giant football stadium to the St. John Arena and French Field House.

As the university architect, Smith's first major project was to design the huge stadium. His last was the arena and field house.

Smith, now 71, retired officially in June, 1956, since 70 is a mandatory retirement age at the university. However, he visits the OSU architect's office almost daily as an unofficial adviser.

Back in 1933, during the heart of the depression, when building activity at OSU was at a minimum, Smith and his staff designed a pattern of growth for the university. Basically, this campus development plan is being followed despite the current rapid building pace.

One of the features of the pattern was the axis around which the campus figuratively would rotate.

This axis consists of Fifteenth Avenue extended, with the only all-stone buildings on the campus as anchors.

These buildings are the library at the base of the oval and two structures at the Fifteenth Avenue and High Street entrance—the museum and the new Mershon Auditorium.

Other buildings on the periphery of the oval contain combinations of stone, brick or frame.

PLANNER

Imposing OSU Structures Stand As Monuments to Howard Dwight Smith

Smith, who resides at 280 Village Drive, left his native Dayton just after the turn of the century to attend OSU as a civil engineering student.

"It so happened at that time that some civil engineering and architecture primary courses were together," explains Smith. "And one of my friends who was studying to be an architect encouraged me to change my major."

Following graduation in 1907, Smith attended the Columbia University School of Architecture and received a degree there in 1910.

After studying abroad for a year on a Columbia fellowship, he joined a New York architect firm. His eldest son, incidentally, is a senior partner today in that same firm.

In 1918 Smith became affiliated with OSU as an architect and also as a professor in that field.

"My first major project was being assigned, along with Professor Clyde T. Morris of the civil engineering department, to draw plans for the football stadium," recalls Smith. "The university authorized a special office just for the one project."

The biggest stadiums at that time were in the East, where Ivy League football was "big time." Smith says he studied the various designs of the stadiums, "especially at Yale, Harvard and Princeton."

When the new OSU stadium had been proposed, it was generally agreed to have a capacity of 40,000. The late L. W. St. John held out for a larger stadium, and the OSU board of directors relented to where they agreed to a stadium of 50,000 capacity.

However, by the time bids were taken, plans called for a seating capacity of 63,000. In 1940, some aisles were eliminated and the capacity jumped to 75,000.

In 1921, the American Institute of Architects awarded OSU a top honor for the plans of the stadium.

That same year, Smith left OSU and became associated with the Columbus Board of Education until 1929, when he returned to the university.

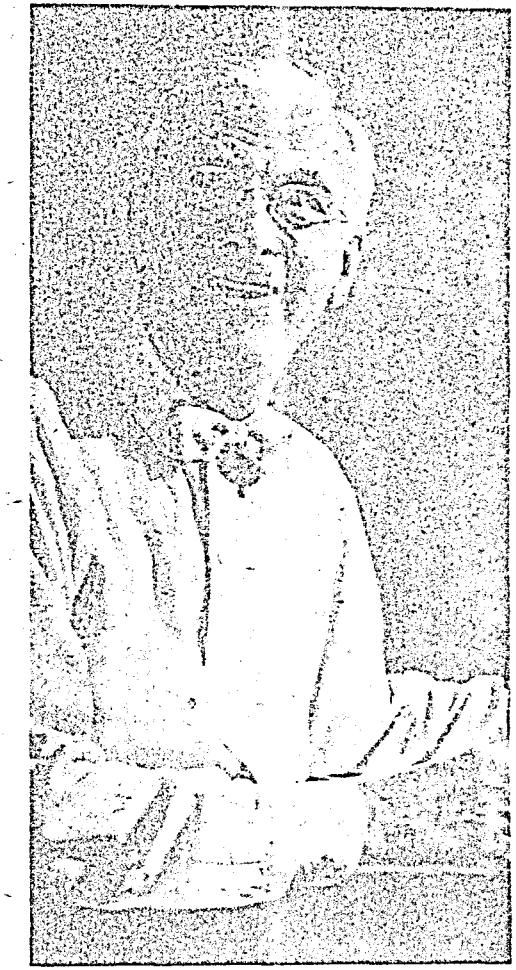
In the interim, until his recent retirement, Smith designed the majority of buildings on the Ohio State campus.

These include the gym and natatorium, faculty club, bacteriology, sociology, and botany and zoology buildings.

Smith has made five trips abroad studying various ideas on architecture and making lecture tours.

His avocation is sketching, and it helps Smith keep a close association with his first love—architecture.

Of his vocation, Smith says it is "gratifying and satisfying. A building is a monument of the works of many people."



Although retired, Smith still keeps in touch with his former vocation.

March 20, 1944

To the Jury of Fellows
American Institute of Architects
The Octagon
1741 New York Avenue
Washington, D. C.

Gentlemen:

I am in receipt of a letter from the Executive Committee of the Columbus Chapter, asking that I address a letter to you in support of the Chapter's nomination of Howard Dwight Smith for advancement to Fellowship in the Institute. This I am very happy to do in the belief that Mr. Smith richly deserves this honor.

I have known Mr. Smith for nearly forty years - that is, over since he graduated here with a degree in architecture in 1907. Following graduation here he entered Columbia University receiving a second degree in 1910 when he was awarded the Perkin's Fellowship for travel study in Europe. On his return to America he entered the office of John Russell Pope where he served until 1915 when he returned to this University as Professor of Architecture and Chief of Design in the Office of the University Architect. While in this employment he designed the Ohio Stadium for which he was awarded the Exhibition Medal of the Institute awarded at the Washington Convention in 1921. Between 1921 and 1929 he served as the School Board Architect for Columbus, during which period he added a number of excellent buildings to the Columbus school system. During this same period the Allied Architects of Columbus were commissioned to prepare plans for a new City Hall. Mr. Smith served on the Board of Directors of this group and won the competition for the projected City Hall and served as chief of design throughout the period of its construction and in the same capacity for a large addition later added to the building.

In 1929 he was called back to the University as University Architect and Professor of Architecture, in which position he has made a very real contribution to the development of the physical plant and to the curriculum in Architecture. As a teacher he has vitalized our courses in professional practice to the extent that his students evince a vital interest in the importance of specifications, estimates, contracts, supervision, office organization and professional ethics. It has been by constant regret that Mr. Smith's duties as University Architect have made it impossible for us to have more of his time as a teacher in the Department of Architecture.

Mr. Smith became a member of the Institute in 1919 and since that time has been very active in Chapter activities in Columbus. He is a past president of the Chapter and at present is serving as Chairman of our Post-War Planning Committee. This committee has performed an excellent public service in coordinating the planning studies of all such agencies in the city and county. In my opinion this committee's work is the most outstanding public service that the Chapter has ever performed for the welfare of this community.

In conclusion, may I express what I believe to be the opinion of the architects of Columbus with regard to Mr. Smith, namely that he is an architect of very real ability and of unquestioned professional and ethical standards, and ever an enthusiastic advocate of the architect as a potential force in our national progress. To me personally, he is a very able designer, an inspiring teacher, and a gentleman worthy of the high distinction for which his fellow architects in Columbus have nominated him for your consideration.

Very truly yours,

Charles St. John Chubb, Chairman,
Department of Architecture
and
Landscape Architecture
The Ohio State University

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RESOLUTION IN MEMORIAM

The Board of Trustees adopted the following statement expressing its sorrow in the death on April 27, 1958 of Howard Dwight Smith retired University Architect and Professor Emeritus of Architecture.

Howard Dwight Smith a native of Ohio was born in Dayton on February 21, 1886 of Andrew Jackson and Nancy Evelyn (Moore) Smith. He received the degree C.E. in Architecture in 1907 from the Ohio State University and the degree B.Architecture in 1910 from Columbia University where he was the Perkins Traveling Fellow in Architecture in 1910-11. He gained his early professional training in architectural offices in Columbus, New York and Washington, D.C. and in 1918 he came to the Ohio State University for a three year period as Professor of Architecture, a position he later resumed in 1929.

From 1921-29 he served as Architect for the Columbus School Board and from 1929 until his retirement in 1956 he served the Ohio State University as University Architect.

Throughout his lifetime of service devoted to the profession of architecture, he was personally responsible for many well-known buildings throughout central Ohio. These include the Ohio Stadium, 1921 for which he was awarded the Exhibition Gold Medal by the American Institute of Architects in 1921; at least twenty-five school buildings including the Upper Arlington Elementary School for which he received the Exhibition Gold Medal by the Architects Society of Ohio in 1941; the City Halls in Marietta and Columbus, Ohio; the Masonic Temple in Springfield, Ohio and more than thirty buildings on the Ohio State University Campus. Among his outstanding Campus buildings are the Main Library addition, the Faculty Club and the St. John Arena and French Field House.

In 1955 at the June Commencement, the Ohio State University honored him with the DISTINGUISHED SERVICE AWARD.

In 1956-57 Professor Smith was the recipient of a Fulbright Award and spent the year as a Visiting Professor of Architecture at the University of Alexandria, Egypt.

He was a Fellow of the American Institute of Architects, a member of Sigma Xi, Tau Sigma Delta, and Sigma Alpha Epsilon. In 1934 he served as President of the Faculty Club. He was a member of the National Joint Cooperation Committee of the American Institute of Architects and the Association of General Contractors,

and was the architectural advisor to the American Commission for Living War Memorials.

His writings included "Planning for Post-War College and University Construction," in the 10th annual edition of the "American School and University" and "The Architect as an Administrative Officer" in the 19th edition; "Memorials That Live" for the American Commission for Living War Memorials and "Thomas Jefferson, Gentleman-Architect."

The many buildings on the Ohio State Campus designed and built under his direction stand as a permanent tribute to his professional ability and integrity. To his students he is remembered as an idealist, who expected much from them, but who gave to his teaching much of himself. To his professional and academic colleagues, he is remembered as one who believed implicitly in serving his chosen profession of architecture.

The University is saddened by his death; he contributed both by word and by deed to the University, to the city and the state.

On behalf of the entire University, the Board of Trustees expresses to his family its deepest sympathy.

APPENDIX E 3

CHARLES ST. JOHN CHUBB

Charles St. John Chubb. (1881-1959) (1)

On March 29, 1959, died Charles St. John Chubb, Emeritus Professor of Architecture of the Ohio State University. With his passing there fades away another of that fast dwindling rank of distinguished teachers and administrators, characteristic of the great William Oxley Thompson formative era of the University.

Professor Chubb was born in 1881 at Fort Pembina, an army post in North Dakota. His father who, at the time, was commandant of this post, later removed to Columbus with his family and here his son Charles received most of his early education, in the public schools. In 1900 young Chubb graduated from the old Columbus Central High School and the following year finds him at the Ohio State University as a freshman in Civil Engineering. From this Department he graduates, in due course, in 1904, with the degree C. E. (Architecture). Then, he goes to the University of Pennsylvania to pursue special studies in archirecture and, while there, in 1907, at the request of Professor Bradford, University Architect and Chairman of the newly created Department of Architecture, he is offered the position of Assistant Professor of Architecture in this Department. He accepts, returns to Columbus and from this time on his entire life is to be shaped by and devoted to his Alma Mater.

In 1913 Mr. Chubb was made Professor of Architecture and, in 1922, he succeeded Professor Bradford as Chairman of the Department, a post which he held until 1944, when he retired from administrative duties. During the 22 years of his chairmanship he was untiring in his efforts to promote the interests of his Department. Under his administration, the Department of Landscape Architecture which, until then had had a checkered career, was definitely merged with Architecture and he was ever alert to stressing, within his College, the peculiar qualities of architecture that differentiated it from other departments of engineering, which stressing wsa to result, later on, in the creation of the separate "School of Architecture and Landscape Architecture", under the administration of the College of Engineering.

For Professor Chubb the welfare of his Department of Architecture and of the profession of architecture, in general, were one and the same. He was always active in the American Institute of Architects and was, for several years, president of its Columbus Chapter. Also, at one time or another, he was secretary-treasurer of the Ohio State Association of Architects - member of the Ohio Society of Architects - and, notably, as a staunch advocate of public housing, at a time when those having such ideas were regarded with suspicion - Chairman of the Columbus Metropolitan Housing Authority. Finally, it may be said, he is generally considered as the "grand-daddy" of the Architects Registration Law of the State of Ohio.

However, with all his devotion to the cause of Architecture, Professor Chubb's interests were widespread. He was a member of the various fraternities and clubs to which one in his situation would be expected to belong and he took an active interest in them. As an indication of the character of the man, one might mention, among the clubs, the "Young Men's Business Club" whose very popular Minstrel Shows, at a time when such things were in vogue, were often arranged by him, he taking great delight in his role of "end man". He was an avid stamp collector, specializing in stamps having an architectural interest and his collection was locally well-known. Always, at the University, he took a keen interest in athletics and, as a student, was manager of the base-ball team, at a time when the rivalry between State and Ohio Wesleyan was frantic.

Professor Chubb was ever "the perfect gentleman". A good part of this perfection was no doubt due to his military antecedents but, some of it, probably, ~~probably~~, was derived from his father-in-law, the legendary Professor Bohannon, "the gentleman of the old school, from Virginia". For the few remaining members of the faculty of Professor Chubb's era - for those such from Engineering, in particular - the words Orton, French, Bohannon, Sherman, Magruder, etc., mean something more than just the names of streets or buildings. For them, these are the names of very human people that they knew and respected and now this sympathetic response ~~would~~ will doubtless be quite as strong and spontaneous at the mention of the name "Chubb".

Professor Chubb is survived by his wife, Mary, - by two children, Charles St. John, Jr. and Mary Ellen Chubb Davidson - by three brothers, Joseph H., Wistar M., and Herman B, this entire family being alumnae of the Ohio State University.

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APPENDIX E 4

CHARLES REUEL SUTTON

THE OHIO STATE UNIVERSITY
SCHOOL OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE
190 WEST 17TH AVENUE
COLUMBUS 10, OHIO

ELLIOT L. WHITAKER, *Director*
BROWN HALL 106

January 10, 1963

The special committee representing the Faculty of the School of Architecture and Landscape Architecture sincerely believes the enclosed recommendation on behalf of Professor Charles R. Sutton calls attention to one of the distinguished teachers of the entire Ohio State University Faculty. Supporting recommendations come from eight students, four alumni, two School faculty and two faculty outside of the School.

To a man, students currently enrolled and alumni in post-academic, professional life concur in their opinions on Professor Sutton's competence and ability as a teacher and professional of Landscape Architecture. The committee calls particular attention to the common thread of commendation and devotion expressed by students and alumni alike on Professor Sutton's continuing personal interest in and concern for their academic and individual problems. Those close to him know he often contributes from his own substance to help students financially while in school and to keep in contact with them in their professional careers.

1. Performance as a teacher.

Professor Sutton has been responsible for the content and teaching of all the professional courses in Landscape Architecture. The degree program is fully accredited by the American Society of Landscape Architects.

His course material is well organized and presented in a quiet yet forceful and orderly manner. The student at all times knows exactly what is required of him and is continually inspired to go beyond the stated requirements of any particular course.

Professor Sutton keeps an individual up-to-date file on each student and alumnus. A survey of post-academic, professional experience indicates many graduates have made excellent records in post-graduate

degree programs at other institutions. His graduates are performing creditably in private professional practice throughout Ohio and in neighboring states of Pennsylvania, New York, Kentucky, Michigan, Indiana and Illinois and as far south as Florida and west in California. At least three graduates are currently engaged in teaching in Illinois, Louisiana and Alabama; while others continue to hold important posts in State and National Parks and Planning Commissions, Highway Departments, Corps of Engineers, Bureau of Public Roads and on the President's Committee on Coordinating Recreational Needs.

Courses taught during the past two years include:

Land Arch	507 & 508	3 cr each
" "	688 & 699	5 cr "
" "	727, 728 & 729	5 cr "
" "	701, 702 & 703	2-10 cr each
Arch	702	2 cr
"	708	3 cr

2. Improvement of the materials of teaching.

Professor Sutton borrows freely from his personal professional experiences and travels, both domestic and foreign to bring new life and interest to his courses. During the summer months he contacts his students and makes recommendations on worthwhile, outside reading in subject areas not necessarily connected with Landscape Architecture. His own reading habits are catholic and meaningful and he shares this reading with his students on a continuing basis.

He maintains an extensive file of topographical maps, charts and diagrams gathered from his professional and travel experiences which serve as a realistic basis for student design exercises.

3. Other activities contributing to the improvement of teaching.

Professor Sutton has served with distinction as Chairman of the National Education Committee of the American Society of Landscape Architects, and has served in the School on a Special Committee to initiate the new graduate program in City and Regional Planning.

Ohio State is well known nationally and internationally for the annual Short Course in Roadside Development. The proceedings of the

20th Course held in 1961 were thoughtfully dedicated to Professor Sutton in recognition of his initiating, developing and promoting this important activity. These annual conferences under Professor Sutton's direction bring well over 400 participants each year to the campus including representatives from most states and many foreign countries.

Many original ideas and improvements in highway development can be attributed directly to these conferences. At present, in conjunction with another colleague, Professor Sutton is conducting an important research on roadside development for the Department of Highways.

4. Evidence of high intellectual capacity.

In 1929 after working professionally in the field of Landscape Architecture Professor Sutton won the coveted Rome Prize in Landscape Architecture and three years of study as a Fellow at the Academy in Rome. He continues his studies, reading and travels as a part of his own personal development and the students benefit immeasurably through their contacts with a truly well-educated, professionally competent man.

Professor Sutton is listed in Who's Who, holds the highest honor in his profession--Fellow of the American Society of Landscape Architects (1951), is a member of the governing boards of the Columbus Gallery of Fine Arts and the Crichton Club and for many years has served the University by being in charge of the annual Faculty Recognition Dinner. Excellent examples of his professional work are found throughout Columbus and central Ohio.

He is in his own rights a fine example of an educated professional whose completed works have brought enjoyment of outdoor spaces to many and who brings to his teaching the thoughtful experiences of a lifetime devoted to the improvement of man's physical environment.

This committee enthusiastically supports the name of Professor Charles R. Sutton as a worthy candidate for the Distinguished Teaching Award.

Frank E. Wilson George M. Clark George B. Tobey Elliot L. Whitaker

BIOGRAPHICAL MINUTE PROFESSOR CHARLES REUEL SUTTON

Charles Reuel Sutton, born March 8, 1900, in Grand Ridge, Illinois, received his Bachelor of Science degree in Architectural Engineering in 1921, at the University of Illinois. In 1926 again at the University of Illinois, Professor Sutton received a Bachelor of Science degree, with honors, in Landscape Architecture and from 1929 to 1932, he was a fellow in Landscape Architecture at the American Academy in Rome. Having discovered Landscape Architecture to be his chosen field, he devoted his lifetime to the profession.

Professor Sutton joined the faculty at The Ohio State University in 1932 as an Assistant Professor, was promoted to Associate Professor in 1937, and to Professor in 1951. In 1941 Professor Sutton was married to Theodora Stone. They had two children. Charles R. and Jonothan.

For over 30 years Professor Sutton conducted a limited, private practice in Landscape Architecture in Columbus, Ohio, and Old Saybrook, Connecticut, and in 1951 he was made a Fellow of the American Society of Landscape Architects.

Professor Sutton held membership in the Board of Managers of the Columbus Gallery of Fine Arts, the American Society of Planning Officials, the American Planning and Civic Association, the Highway Research Board and the American Society of Landscape Architects. He was a longtime member of the First Congregational Church in Columbus, Ohio.

His clubs included Alpha Rho Chi, Tau Sigma Delta, Faculty, University, University Golf Club, Crichton and 41.

His 31 years of teaching, service to the University, and to the community was marked by an inspired devotion to excellence in the professional training of his students, and the promotion of Landscape Architecture as a professional field of endeavor. His teaching was greatly enriched by the fact that he was widely read; had travelled extensively, and knew at first hand the sites he described so vividly in his classroom discussions.

In cooperation with the Ohio Department of Highways, he established in 1941 the annual Ohio Roadside Short Course, which is recognized today as a major medium of exchange of ideas in the increasingly important area of roadside development. The Short Course has today an international reputation.

Everyone who knew Charles Reuel Sutton - students, alumni, faculty and his many friends, feel deeply the loss. He was in his own rights a fine example of an educated professional man whose completed works brought enjoyment of outdoor spaces to many and who brought to his teaching the thoughtful experiences of a lifetime devoted to the improvement of man's physical environment.

George B. Tobey, Jr.

APPENDIX E 5

WILLIAM CATHMORE RONAN

TO THE DEANS OF THE MEMBERS
OF THE ASSOCIATION OF COLLEGIATE SCHOOLS OF ARCHITECTURE

FOR IMMEDIATE ATTENTION

The College of Fellows of the American Institute of Architects proposes to award Citations in recognition of important contributions which are made to the profession of architecture through effectiveness in teaching. The certificate awards will be made to individuals who are nominated by their Deans and approved by a committee under the chairmanship of Mr. Richard Bennett, F.A.I.A. It is not the intention of the College to establish or imply any competitive rating, nor to designate any one or several "best teachers of the year", but rather to recognize and commend outstanding merit in a field of architectural teaching.

Deans are invited to make recommendations of the one or two teachers most worthy of special citation. Each recommendation should include a paragraph statement of justification, clearly indicating the nature and importance of the contribution, and each must be submitted in six copies. No exhibits are to be forwarded, in any case. Submissions should be addressed to:

Mr. Richard M. Bennett
430 North Michigan Avenue
Chicago, Illinois

Submissions are to be mailed before April 1, 1955. Material submitted will not be returned.

The Citations will be announced at the Convocation of the College of Fellows, in Minneapolis, on June 24, 1955.

Thomas H. Locraft, Secretary
1518 P Street, N. W.
Washington 5, D.C.

March 28, 1955

Mr. Richard M. Bennett
430 North Michigan Avenue
Chicago 11, Illinois

Dear Mr. Bennett:

As Director of the School of Architecture and Landscape Architecture at The Ohio State University I am pleased to present to your committee the name of Professor Wilbert C. Ronan to receive a citation for his contributions to the architectural profession through his effectiveness in teaching.

Professor Ronan, born in 1887 received his professional education at Ohio State and Pennsylvania. Since 1913, he has been identified continuously with the teaching of architecture at Ohio State and during his 42 years of service has taught all phases of the curriculum and at one time served as head of the school.

This recommendation is made, not because of age and years of service but for his ability to continue young and creative in his philosophy, while serving as an inspiration to practicing architects, fellow faculty and students, through his precise, scholarly, orderly and gentlemanly teaching, especially in the fields of Architectural History and the Decorative Arts.

His teaching career has been carefully conditioned by a successful parallel career in architectural practice which produced many of the fine buildings in central Ohio, while at the same time, he served twice as president of the Columbus Chapter, A.I.A.

Through continuous, extensive traveling in the United States, Mexico and Europe, he has built up a wealth of background material in the arts, architecture and culture of cities and people. As a national authority on the art of Stained Glass (see Junior Encyclopedia Brittanica) and oriental rugs, he uses his own collected material in these fields for enlivening the students' classroom learning experiences.

In a period when architecture throughout the world is undergoing such an accelerated change of pace and emphasis it is refreshing to have Professor Ronan's steady scholarly interpretation of our own and past civilizations. As a consequence, we feel that our students will not only become practicing architects but also will be better citizens and be made more aware of the finer cultural traditions which are the backbone of a civilization.

Because he is a real gentleman, an excellent teacher and a constant source of inspiration, it is a real pleasure for me to present the name of Wilbert C. Ronan as an outstanding Professor of Architecture at The Ohio State University.

Sincerely yours,

Elliot L. Whitaker

mn

THE OHIO STATE UNIVERSITY
HOWARD L. BEVIS, *President*
COLUMBUS 10

COLLEGE OF ENGINEERING
OFFICE OF THE DEAN

June 14, 1955
(dictated 6/11/55)

Professor W. C. Ronan
School of Architecture
119 Brown Hall
Campus

Dear Professor Ronan:

I am advised that the College of Fellows of the American Institute of Architects is about to bestow upon you an award based upon your teaching effectiveness during your service at Ohio State University.

My hearty congratulations to you! We always are glad to have individual merit recognized and more especially when it is in the field of teaching effectiveness. As you know, there has been some tendency on the part of certain educators to play down teaching effectiveness and to overemphasize research. We in the College Office are therefore doubly grateful to you for bringing this honor upon the College and join with them in our appreciation for your services.

Cordially yours,

Gordon B. Carson
Dean

GBC:ml
cc: Professor E. L. Whitaker

APPENCIX E 6

HERBERT BAUMER

Mr. Baumer is the son of Captain Joseph Baumer of Montgomery, Alabama. He received his earlier education in Washington, D. C., graduating from the Technical High School of that city in 1903. Following graduation, having decided to take up the profession of architecture, he entered George Washington University. About the same time he began to study privately under Nathan Wyeth, of Washington, a graduate of the Ecole des Beaux-Arts of Paris. In 1905 he entered the office of the Chief Engineer of the Panama Canal, at Panama. Here he remained four years, resigning in 1909. The following year he went to Paris to enter the Ecole des Beaux-Arts. In June 1911 he was admitted and received into the Atelier Bernier-Pontremoli. For the next five years he worked at the "Ecole" and travelled extensively in Europe. During this period he became an associate of Achille Duchene, a prominent architect of Paris, working principally on projects in the United States. In 1917, shortly after the arrival of American forces in Europe, he was commissioned a First Lieutenant of Engineers, U.S. Army. Later he was promoted to Captain and served through the war in France, being honorably discharged at Paris in November 1919. He returned to the Ecole des Beaux-Arts, completed his thesis and was awarded the "Diplome d'Architecte" in June 1920. During this period he continued his work as associate with Achille Duchene and later worked with Jacques Greber, Architect, Paris, on the Philadelphia Parkway. He returned to the United States in 1922 and entered the office of Severance and Van Alen, New York City, as a designer. In the fall of 1922 he was prevailed upon by Joseph N. Bradford, Professor of Architecture and University Architect, to accept the appointment of Professor of Architecture at The Ohio State University. Except for a brief tour of duty in World War II, his tenure has been continuous through his elevation to Professor Emeritus in 1956 to date. (40 years) During the early part of this teaching period, he was design associate with Joseph N. Bradford, University Architect, and several of the buildings on The Ohio State University campus are to his credit, such as the rotunda and north entrance of The Ohio State Archaeological Musuem which houses the World War I memorial sculptures by Saville, the Orton Memorial Library Orton Hall, Arps Hall, Chemistry Building, and Derby Hall. Off the Ohio State University campus, he was architect for the General Science Building at Antioch College, Antioch, Ohio; Koch Hall, Chemistry Building at Wittenberg College, Springfield, Ohio; the original Airport Terminal Building at the Columbus Airport, Players Club Theatre, Columbus, Ohio; Camp Mary Orton, north of Worthington, Ohio; Dodge Memorial Gymnasium, Wright Patterson Air Force Base, Dayton, Ohio and Officers Club at Orlando Air Force Base, Orlando, Florida. From 1919 to 1942 he remained in the Armed Forces on a reserve status. In 1942 he entered the Air Corps as a Major, served through the duration of the war, returning to civilian status as a Lieutenant Colonel. He supervised the preparation and maintenance of master plans for the physical development of all Air Technical Service Command installations and was awarded the Commendation Ribbon in 1946. As an Emeritus Professor, Mr. Baumer is not only an active participant in faculty and student affairs, but he serves as an advisor to the School of Architecture.

THE OHIO STATE UNIVERSITY
SCHOOL OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE
190 WEST 17TH AVENUE
COLUMBUS 10, OHIO

ELLIOT L. WHITAKER, *Director*
BROWN HALL 106

Columbus, 4 September 1962

To Whom It May Concern:

A friend recently asked me to state just what might be my "PHILOSOPHY OF ARCHITECTURE". I suppose that anybody who, like me, for thirty years or more, has tried to teach this subject, could be expected to have this philosophy all well defined and ready for publication. But with me this was not the case. Be this all as it may, in compliance with the request, I now set down, as follows, the result of some more or less laborious introspection on the subject.

While living abroad - in Paris, as a student at the Ecole des Beaux-Arts - I fell under the influence of a certain Achille Duchene who called himself simply "architecte" and was well known as such but who was better known, and outstandingly, as "paysaygiste" (landscape architect). I worked in his office and under his personal direction for a number of years. This work, mostly on important properties of wealthy clients, had almost always to do with these properties as a whole, with never any distinction as to just what was building, proper, and just what was setting and environs.

The practice so prevalent in the United States in the early part of this century, of first designing a building as if in isolated space and then trying to fit it to its site, is a concept that would have been beyond comprehension in Duchene's office. As I worked here I became thoroughly imbued with this way of thinking - the validity of which, it may be said, incidentally, has become more and more recognized - and, when later I found myself a critic in design, teaching "theory of architecture" and writing programs for various courses in design, this point of view, of the building and the site being indissoluble - was dominant with me and has no doubt been the one strongest influence on what ideas I may have as to a "philosophy of architecture".

A building in space, alone, is perforce a monument - stark, lacking in humane quality and, as a monument, by definition, dated. It is the placing of this building - this monument - that relates it to time and hence to life. That architecture is a grand continuum rather than a series of disconnected episodes is, I believe, about what epitomizes what philosophy I may have on the subject.

Herbert Baumer

THE OHIO STATE UNIVERSITY
SCHOOL OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE
190 WEST 17TH AVENUE
COLUMBUS 10, OHIO

ELLIOT L. WHITAKER, *Director*
Brown Hall 106

A FEW CRITICAL OBSERVATIONS ON THE PRESENT STATUS OF ARCHITECTURAL EDUCATION IN THE UNITED STATES

There is perhaps today no more important question before the people of this country than that of education, and what with "population explosions" and ever increasing demands for mass education, an adequate answer to the question appears ever more elusive. Things are destined to get worse, it would seem, before they get better and, in this situation, the Schools of Architecture are seeking - not always with success - to limit their enrollment. This they must do if they would protect the quality of their student body. The average freshman today has quite as high an IQ factor as ever but, due perhaps to his prolonged exposure to "progressive" (so called) theories, seems less well developed as an individual and much more inclined to overlook the hard facts of life than was the case with his counterpart of pre-World War II days. What seems generally lacking, to an appreciable degree, is the old spirit of competition which was so favorable a factor in architectural design. The schools should seek by all means possible to recapture this old spirit. It is very important for the well-being of the student body, and, instead of being "antisocial", as might be inferred, is quite the contrary in that any distinction for merit, while centered on an individual, is most often the result of a common effort willingly bestowed.

This idea of competition is not quite as simple as might seem. The idea of excelling in something is preceded by the idea of emulation - of doing a thing as well as others have done it. Translated into practice, this means seeing not only the superior result that others have achieved but in seeing, above all, the way in which it was achieved and this means exposing the less advanced student to the doings of the more advanced one. It is herein - in failing to insist that the students as a whole be exposed as completely as possible to the practical workings of the design process - mentally and technically - that our schools

seem remiss. The basic reason for this is doubtless the excessive fragmentation of the curriculum imposed most often by general overriding university regulations which, unfortunately, our Schools of Architecture seem to accept without protest. That some means of measuring a student's advancement is conceded, but that this means be carried to the extreme that obtains almost everywhere in our colleges and universities, is vexatious and is something that the writer believes architectural education could reduce to a minimum with much profit. For the design process, at least, the result of all this fragmentation is pernicious. Students, arbitrarily separated according to a course number, are frequently lodged, and unnecessarily, in entirely separate quarters with the result that the student is confined within what amounts to an educational slot which shuts off his sense of continuity and which, worst of all, shuts him off from the valuable and very humanizing process of extending help to those less able than he and of receiving it from those more able. To the writer's way of thinking, a patent fault of architectural education in the United States is the little heed paid to the value of mutual student instruction. By and large, the American point of view seems to be that instruction is the province of the instructor, exclusively. In design, the instructor's role is to raise the general level of instruction. With this level established at any given degree of merit, the instructor may - when he has encouraged a proper esprit de corps in the student body - absent himself for months without any marked loss of competence by the class. The class, as a whole, has a momentum which, minus the instructor, will carry it along right evenly for quite some time.

Another matter in which the writer believes the schools of architecture to be remiss is in not insisting that instruction in certain required subjects - in mathematics, notably - be controlled by them in order that

this instruction be slanted, in so far as possible, towards architecture. As it is the student frequently finds the usual abstract mathematical course to be unpalatable, largely because he does not realize its importance for him. Here the stress should be fixed strongly on CONSTRUCTION and the mathematics involved brought into play only as the need for it becomes evident. Mathematics, while indispensible to architecture, is still not architecture. Construction IS architecture. At the turn of the century, architectural education in the United States was not formalized as it is today. A young man entered the office of an architect whose work he admired. At times he would have a B.A. in Arts - most frequently a high school diploma, at best. The distinctly architectural part of his education was to be gotten in the office of his patron. This is the time-honored apprentice system that produced many of the most able architects of the time and it is not at all evident that our present out-and-out formalization of architectural education has produced better results - unless success be measured only in terms of numerical output. The old apprentice system is still quite applicable in the Arts, generally - in painting, sculpture, music, for instance - but it is otherwise with architecture. In our society with its marked tendency toward regimentation, the average young man who would practice architecture, plainly sees that he had best get in line and get a B.A. in Architecture as soon as possible, which means, without overexerting himself, at the end of five years. A somewhat modified version of the old apprentice system has, in late years, found application and this with splendid results, as at the elder Saarinen's Cranbrook and Wright's Taliesin. The cause of architecture in this country would be due to gain did more such appear to be in the making.

To the writer it seems that the average architectural student is noticeably different from his counterpart of thirty years ago, with most of this difference having taken place since World War II. Traditionally, students

are the champions of the new, the revolutionary. Today this tradition may hold as for politics, but not so for architecture. It used to be that something as unorthodox as le Corbusier's Chapel at Ronchamps, for instance, would bring about much student experimentation with plastic forms, but nothing much of the kind seems to have taken place. The architectural student of today appears less daring, less individualistic than he used to be. This is to be regretted. The clamor is for ever more and more education. Maybe we have too much already, at least of the predigested kind as fed to us interminably by Radio, TV and the commentators - all of which may well tend to stifle imagination and bring about a drab uniformity of outlook. In the past, Architecture and Poetry have always been akin, but today this kinship is being repudiated by Poetry in favor of Engineering. Architecture seems ill at ease. What could help architecture in the present conjuncture might be something like a Renaissance of Mythology which - with the true life story of Mars and Venus and of all the other gods and goddesses about to be investigated - could well be in the making.

Herbert Baumer
22 September 1962

The Herbert Baumer Paper was established in 1968, in honor of Herbert Baumer, F.A.I.A. Architect and Teacher at The Ohio State University from 1922 to 1956.

Certificates of excellence are awarded annually for outstanding student papers in the field of Architecture. The papers so cited are bound and placed in the permanent collection of the School Library.

150 certificates were signed by Professor Baumer in July 1968.

This certificate is number ____

The Ohio State University

SCHOOL OF ARCHITECTURE

Recognizes

THE HERBERT BAUMER PAPER IN ARCHITECTURE

by

as a distinguished contribution to the literature of the Profession.

Herbert Baumer

Director, School of Architecture

APPENDIX F 1

THE OHIO STATE

UNIVERSITY BULLETIN

1910

The Ohio State University Bulletin is published at least fifteen times during the academic year as follows: Monthly in October, November and June, and bi-weekly in December, January, February, March, April, and May.

This bulletin is published by the University at Columbus. Entered as second-class matter November 17, 1905, at the postoffice at Columbus, Ohio, under Act of Congress, July 16, 1894.

VOLUME XIV NUMBER 24

OHIO STATE UNIVERSITY BULLETIN

ILLVSTRATING AND DESCRIBING THE WORK OF THE DEPARTMENT OF ARCHITECTVRE

COLVMBVS OHIO ⊕ MAY 12 1910

Ohio State University

The Ohio State University, located at Columbus two miles north of the Union Station, is a part of the educational system which is maintained by the State.

Its financial support is from the State and Federal governments, fees, and endowments.

The campus proper is approximately one-half mile wide by two-thirds of a mile long, and contains twenty buildings devoted to the instructional work of the University. Of these, Brown Hall is occupied in part by the Department of Architecture.

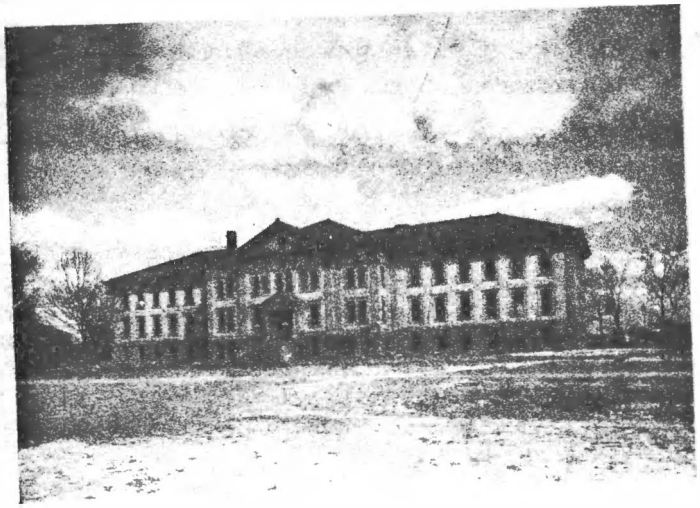
The University comprises seven colleges: (1) Agriculture and Domestic Science, (2) Arts, Philosophy and Science, (3) Education, (4) Engineering, (5) Law, (6) Pharmacy, and (7) Veterinary Medicine.

The course in Architecture consisting of four years is an organic part of the Engineering College.

The advantages of affiliation with the professional schools and being in the atmosphere of a large University are so obvious that argument is unnecessary.

This Bulletin is a special one devoted to a brief description of the work of the course in Architecture, together with the illustrations showing in a measure the quality of the results accomplished.

[Bulletins describing in detail the work of any of the Colleges of the University and relating to the requirements for admission, may be obtained by addressing the University Editor, Ohio State University, Columbus, Ohio.]



BROWN HALL

The Course in Architecture

To the young man with artistic taste and talents, and who at the same time has an interest in practical constructive problems, the work of the architect will appeal as a vocation. Architecture brings its practitioner into closer touch with every day life than almost any other profession, and it offers a wide field for advancing the general good of the community.

The instruction offered at the Ohio State University is to prepare a sound foundation of fundamental knowledge required for the practice of Architecture together with a certain amount of general college education.

The course recognizes that architecture is a fine art necessitating a liberal training in design, and it also recognizes that any enduring structure must be erected in obedience to utility and sound principles of construction. All work of the course is under direct supervision of the instructors.

The first year of the course is the same as that for all the four year courses of the Engineering College and is devoted to subjects preparatory to the three years to follow, and general college training.

Architecture is not taken up in the course until the second year, when history of architecture and order problems are studied concurrently. The object of the former is to familiarize the student with the work of the past, to broaden his general view of architecture and to understand the proper use of precedent. From this subject he learns to appreciate that architecture is closely related with the civilization of all periods of time and is a record in masonry of the social, religious, and political conditions of the people and dependent to a certain extent upon geological and climatic conditions of locality.

In conjunction with the study of architectural history, design is commenced by a careful study of the orders followed by order problems which involves the fundamental principles of architecture, the logical starting place, and the birth of the great styles developed in later years.

Architectural shades and shadows are taken up concurrently with the order problems, the practice part of the subject being applied to rendering the orders. This subject is considered primarily as a part of architectural design and the architect should be as familiar with it as with the disposition of any other mass composing the structure.

Perspective rendering follows shades and shadows. This

training enables the architect to present his work as it would appear after erection, giving to the layman a more comprehensive understanding of the design than can be obtained from drawings in elevation.

Following the order problems, the study of design is further developed by a series of problems involving residences, apartment houses, school buildings, public buildings, tall steel constructed office buildings, monumental structures and ecclesiastical buildings.

Instruction in decoration, ornament and architectural composition form separate courses of study during the first semester of the third year and find their application in the solution of the above problems.

Specifications, estimating, and professional practice receive due consideration in separate courses during the fourth year.

Drawing, both freehand and mechanical, is an important part of the architect's training. In addition to the extensive practice which the student gets in his designing, a series of drawing courses runs through a greater part of the four years.

Freehand drawing is an absolute necessity to the architect and in a school of architecture freehand drawing must be considered as an indispensible professional study. It commences with an eight weeks summer course following the first year, during which time the students work in the studio and outdoors four hours each day, from still life, plaster cast, and nature. In the second year the work is continued in charcoal drawing from plaster ornament, pen and ink drawing, and, during the third year, water color and charcoal drawing from the antique and life. In the fourth year the work continues through the first semester in clay modeling, which gives the student a third dimension knowledge and value of design, and completes this series.

Mechanical drawing commences in the first year with study and practice in elementary mechanical drawing, lettering and projections. During the Summer Session following the first year, descriptive geometry is studied every afternoon for eight weeks.

From this point on the student is constantly applying his knowledge of these subjects in preparing drawings for the problems in design and in the preparation of working drawings.

Photography, due to its universally acknowledged value, receives careful consideration in the course.

The technical subjects which have to do with the fundamental knowledge upon which intelligent construction is based include mechanics, masonry, roof trusses, steel construction for tall buildings, cement and reinforced concrete, materials of construction, testing of materials, and surveying.

The sanitary part of building construction is amply provided for by thorough instruction in sanitary plumbing, heating, and ventilating.

Quarters and Equipment

QUARTERS AND EQUIPMENT. The department occupies the west end of Brown Hall (see page 3), where it is provided with large, well lighted designing rooms, a lecture room with projection lantern and office. In the designing rooms, each student is provided with a drawing table and locker for his exclusive use.

EQUIPMENT. The equipment consists of drawing tables, lockers, a fine collection of Caproni plaster casts of architectural orders, antique, carved ornament of ancient, mediæval, and renaissance, and statuary; two thousand lantern slides of the masterpieces of architecture; collection of photographs, drawings, specifications and samples of building materials.

The library possesses a well selected collection of standard works, a fine collection of portfolios of architectural plates and bound volumes of the best periodicals together with the current numbers of the same.

EXPENSES. The following covers all charges payable to the University. The amounts are per semester. Incidental fee, $10.00 (except for students non-residents of Ohio, who are charged $15.00); each laboratory course using gas, water, electric current or steam, $2.00; drawing, designing and other laboratory courses, $1.00; and gymnasium locker fee, including towels, $2.00. These payments need seldom exceed $20.00 a semester.

In addition to these, the expenses for military uniform and necessary books, etc., will range from $30.00 to $40.00. The other expenses incident to living at Columbus will bring the total cost per year, exclusive of other clothing, up to from $250 to $400, according to the degree of economy exercised by the student. Board and room, included in the above, will range from $4.00 to $6.00 per week. There is also a graduation fee of $5.00 at the end of the course.

GRADUATES. The following positions held by graduates of this department may be mentioned to indicate the character of work for which the course prepares: Associate professor of architecture, members of architectural firms, chief draftsman in architectural offices, architect for an interurban railway constructing firm, draftsmen and designers in the Supervising Architect's Office, Washington, D. C., structural steel designers, and draftsmen in architectural offices.

Outline of the Course

The figures denote the number of credit hours required per week. In Designing, Drawing and Laboratory one credit hour requires three hours of practice.

FIRST YEAR.

First Semester	*Second Semester*
Mathematics .....5 hours	Mathematics .....5 hours
English .....2 hours	English .....2 hours
Modern Language.....4 hours	Modern Language.....4 hours
Chemistry .....4 hours	Chemistry .....4 hours
Elem. Mech. Drawing, 2 hours	Lettering & Proj'n....3 hours

SUMMER SESSION: Charcoal Drawing from plaster cast and Descriptive Geometry eight weeks.

SECOND YEAR.

History of Arch.....3 hours	History of Arch.....3 hours
Order Problems.....2 hours	Order Problems .....5 hours
Shades, Shadows & Perspect. .....3 hours	Stereotomy .....3 hours
Charcoal Drawing from Ornament .....2 hours	Pen and Ink Draw'g..2 hours
Physics .....3 hours	Mathematics, Calculus, 5 hours
Mathematics, Calculus, 5 hours	

SUMMER COURSE: Practice in an Architect's office or working up an Architectural Problem assigned by the Department.

THIRD YEAR.

Architectural Design...5 hours	Architectural Design..4 hours
Decoration & Orna'nt, 3 hours	Working Drawings....4 hours
Arch. Composition....2 hours	Charcoal Drawing from Antique and Life...3 hours
Water Color .....3 hours	Photography .....2 hours
Mechanics, Statics, & Strength of Mate'ls, 5 hours	Mechanics, Strength of Materials .....2 hours

FOURTH YEAR.

Architectural Design..6 hours	Architectural Design..3 hours
Clay Modeling .....2 hours	Specifications, Estimates and Prof. Practice..4 hours
Plumbing .....1 hour	Surveying .....2 hours
Masonry .....2 hours	Cement & Reinforced Concrete .....3 hours
Tall Building Const...3 hours	Thesis .....5 hours
Materials of Const....2 hours	
Heating & Ventilating, 2 hours	

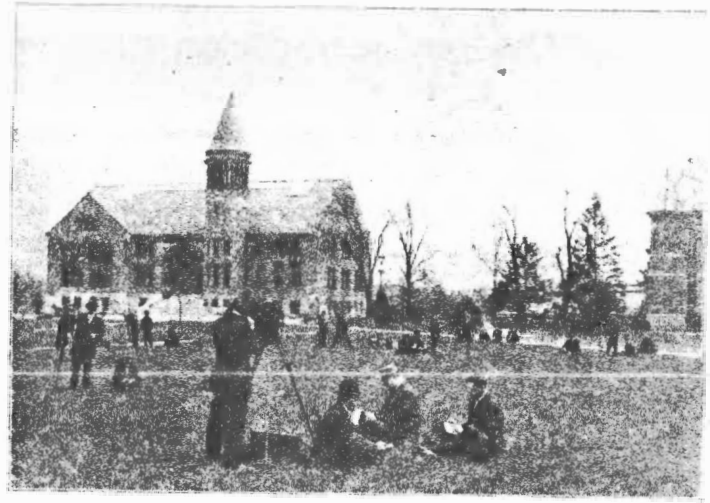
Officers of Instruction

WILLIAM OXLEY THOMPSON, D. D., L. L. D.,
President of the University
JOSEPH NELSON BRADFORD, M. E.....Architecture
CHARLES ST. JOHN CHUBB, JR., C. E. (in Arch.).....Architecture
FRANK H. HASKETT .....Photography
THOMAS E. FRENCH, M. E.,
Mechanical Drawing, Lettering, Descriptive Geometry
THOMAS K. LEWIS, B. S.....Clay Modeling
WILLIAM J. NORRIS.....Pen and Ink and Water Color Rendering
MARY R. LAVER.....Charcoal Drawing from Still Life and Nature
EMBURY A. HITCHCOCK, M. E.,
Heating and Ventilating and Materials of Construction
CLYDE T. MORRIS, C. E.....Trusses and Steel Construction
JAMES E. BOYD, M. S.....Mechanics
FRANK H. ENO, B. S. C. E.....Cement and Reinforced Concrete

Instruction in English, French, German, Mathematics, Physics, and Chemistry is given in their respective departments of the University.

Photography

Instruction in Photography consists of lectures and text-book work upon the fundamental principles of the subject together with practice in exterior and interior architectural problems, copying orthochromatic and lantern slide work. Each student is required to keep a careful record of all work.



CLASS IN PHOTOGRAPHY

Charcoal and Pen and Ink Drawing

This work develops perception, cultivates artistic taste, and develops facility of expression.

CHARCOAL SKETCHES

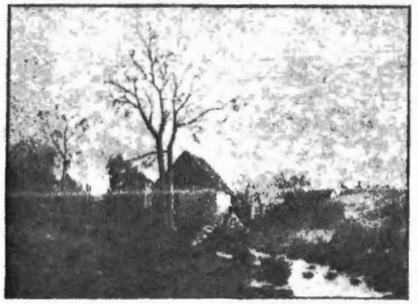
PEN AND INK SKETCHES

Water Color Painting

This training gives the student facility in brush handling, and an appreciation of color and harmony. It is devoted to outdoor landscape work primarily.

W. B. Field

N. Runyan

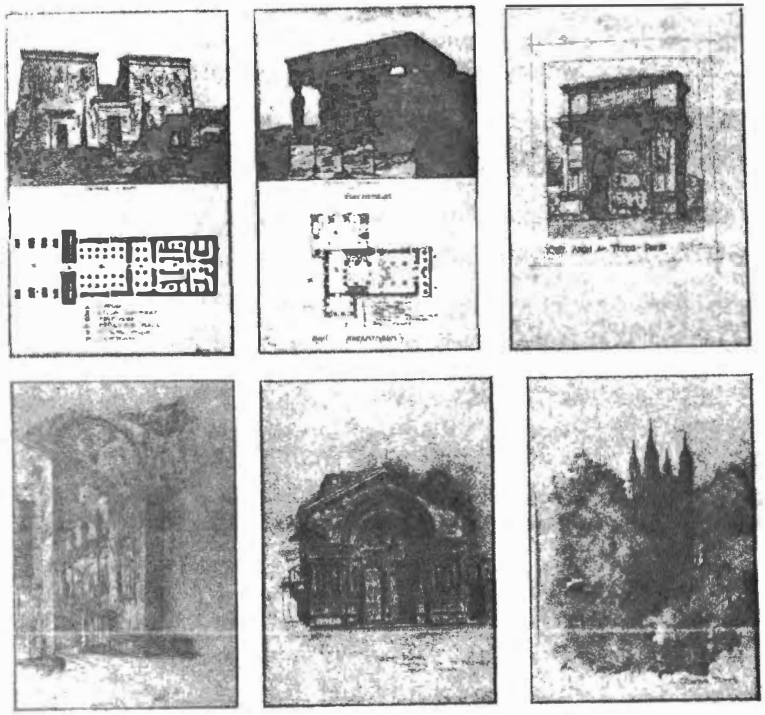


R. Sims

N. Runyan

History of Architecture Sketches

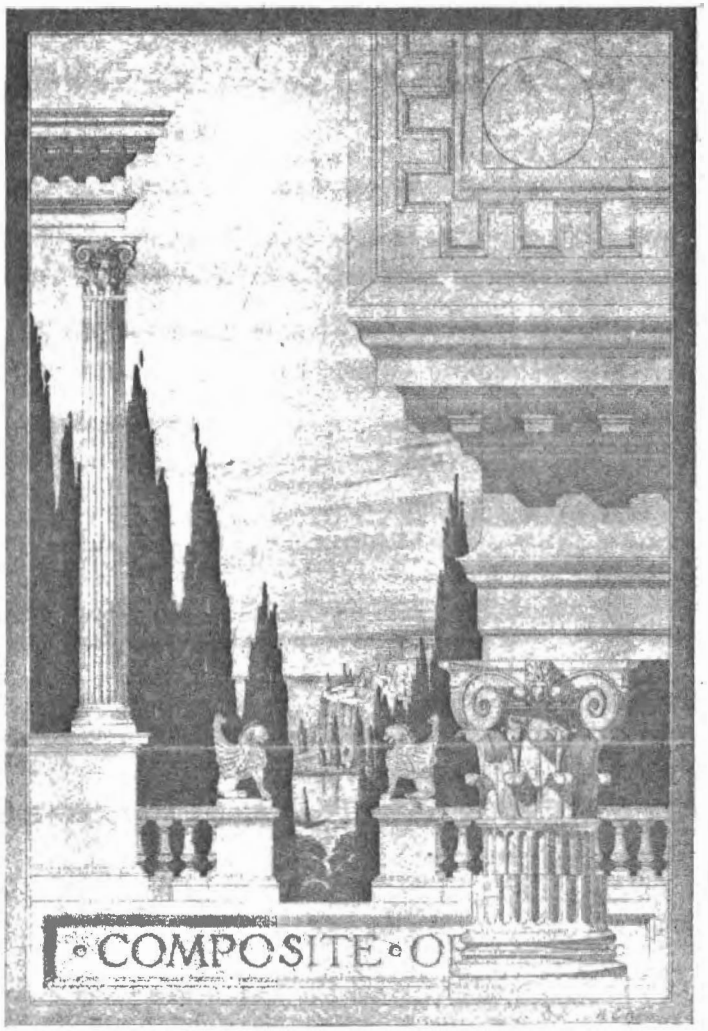
Each week the students are required to prepare a sketch of some important structure or part of a structure considered. This practice gives an intimate acquaintance with the books and photographs belonging to the departmental work.



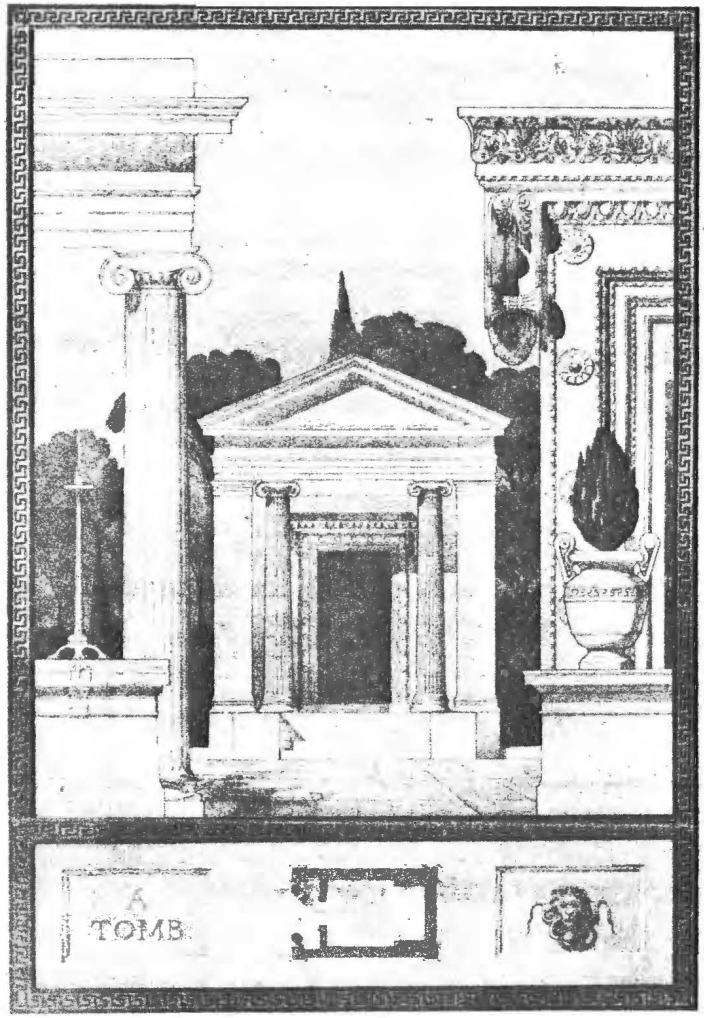
EXAMPLES OF SKETCHES PREPARED BY STUDENTS

Order Problems

The five orders are considered first, after which problems in elementary design involving the orders are taken up. Later in this same year elementary problems in Romanesque Gothic and Renaissance are studied.



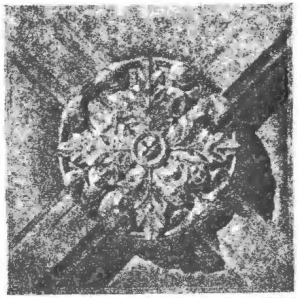
W. C. Ronan



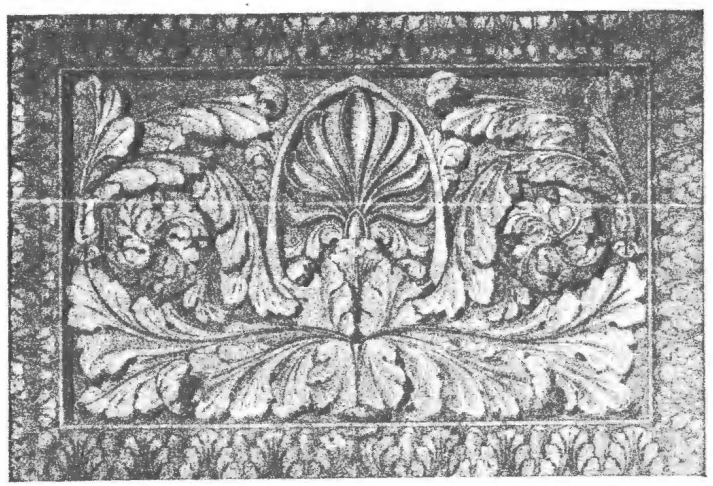
ORDER PROBLEM E. G. Conrad.

Ornament

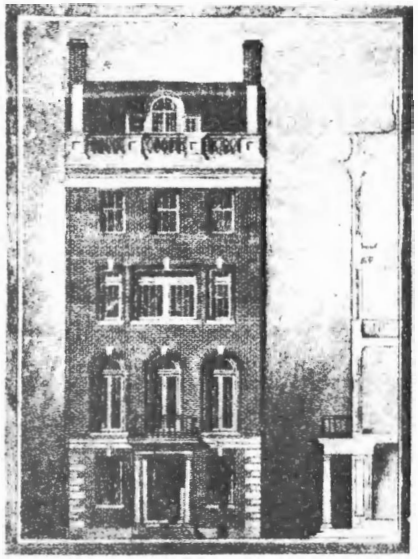
Lectures are given explaining the historic development of ornament, general treatment of ornament and principles, color and color harmony in decoration. Problems are designed which are carefully worked out and rendered.



R. Sims



W. B. Field

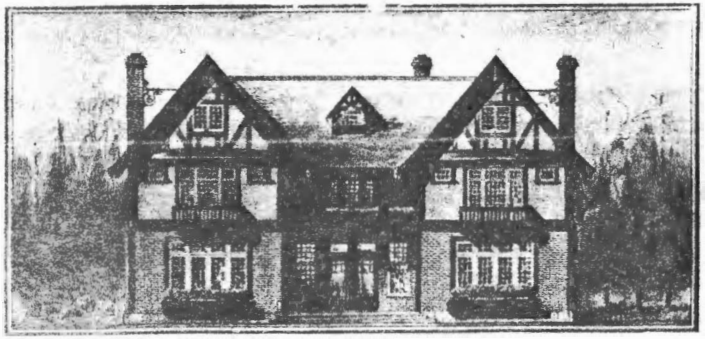


W. B. Field

CITY RESIDENCE

Residence Design

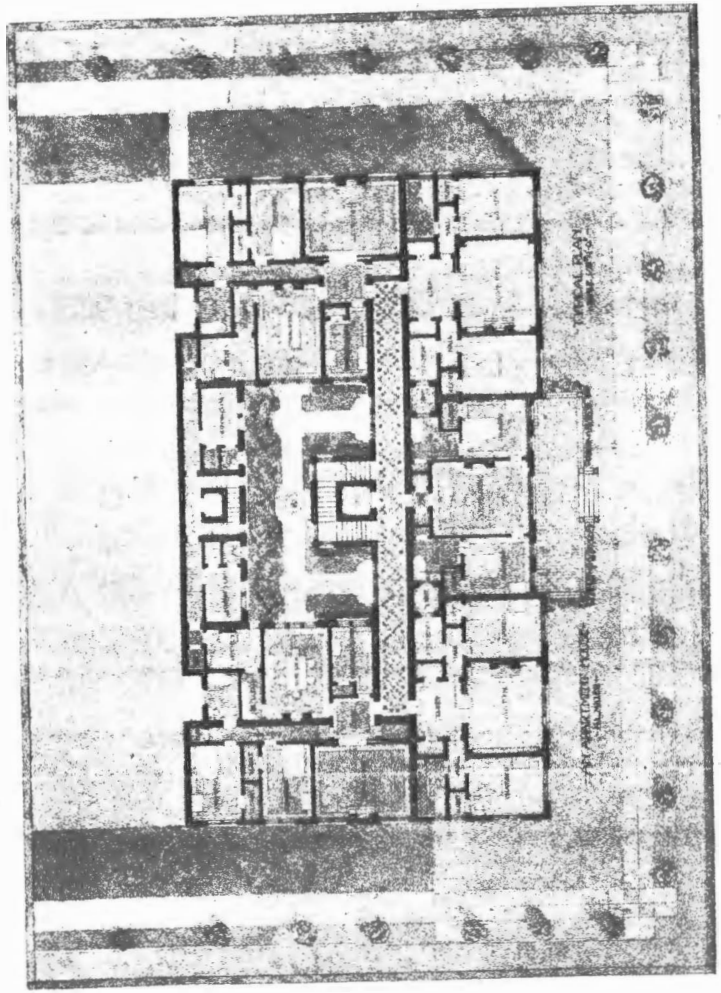
First a careful analysis of the problem in general is considered in class, after which definite problems are assigned involving the suburban and city types of residences.



SUBURBAN RESIDENCE W. B. Field

Apartment House Design

Following the single residence, the apartment house or collective residential building problem is taken up. The various types of apartment buildings are considered in lectures. The problems given aim to solve the complex questions of circulation, isolation, light and air involved in buildings of this class.



TYPICAL PLAN Miller

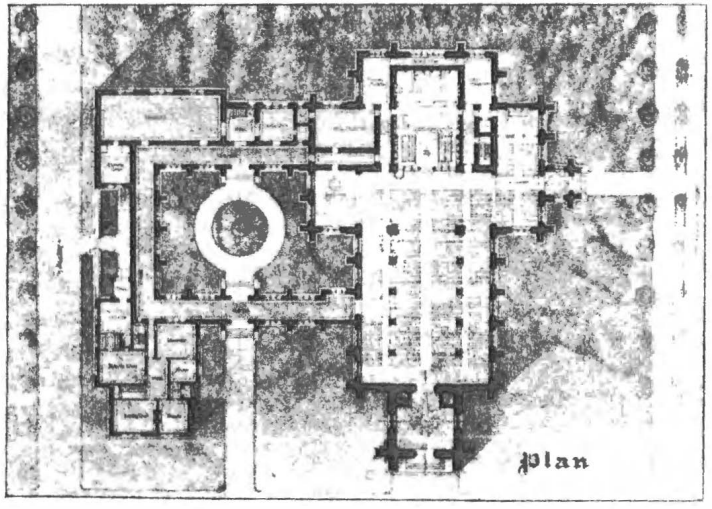
Apartment House Design

ELEVATION Rose

ELEVATION Doelker

Ecclesiastical Design

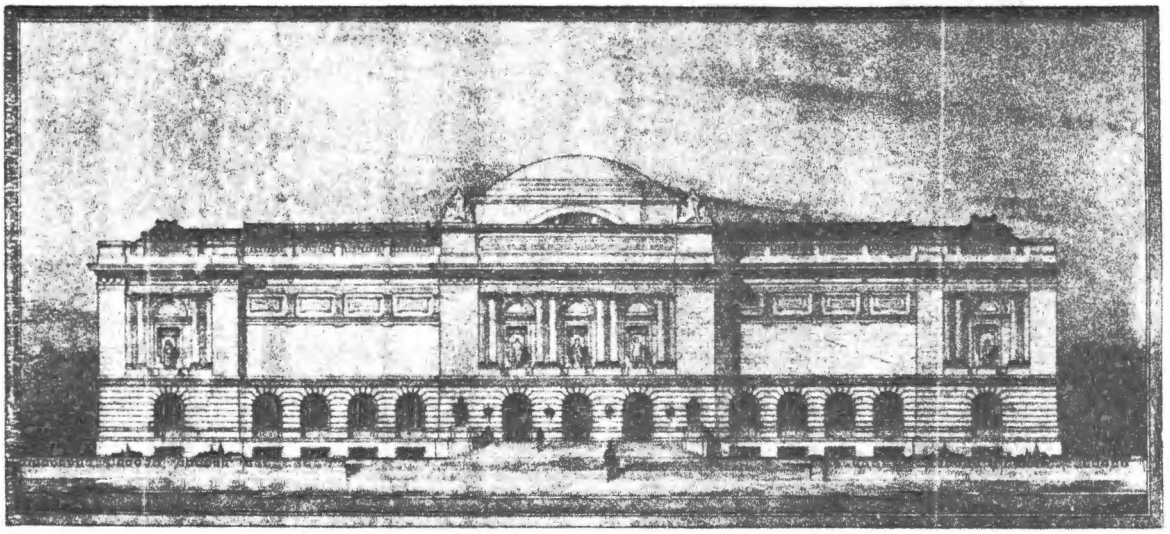
H. J. Albrecht



EPISCOPAL CHURCH GROUP

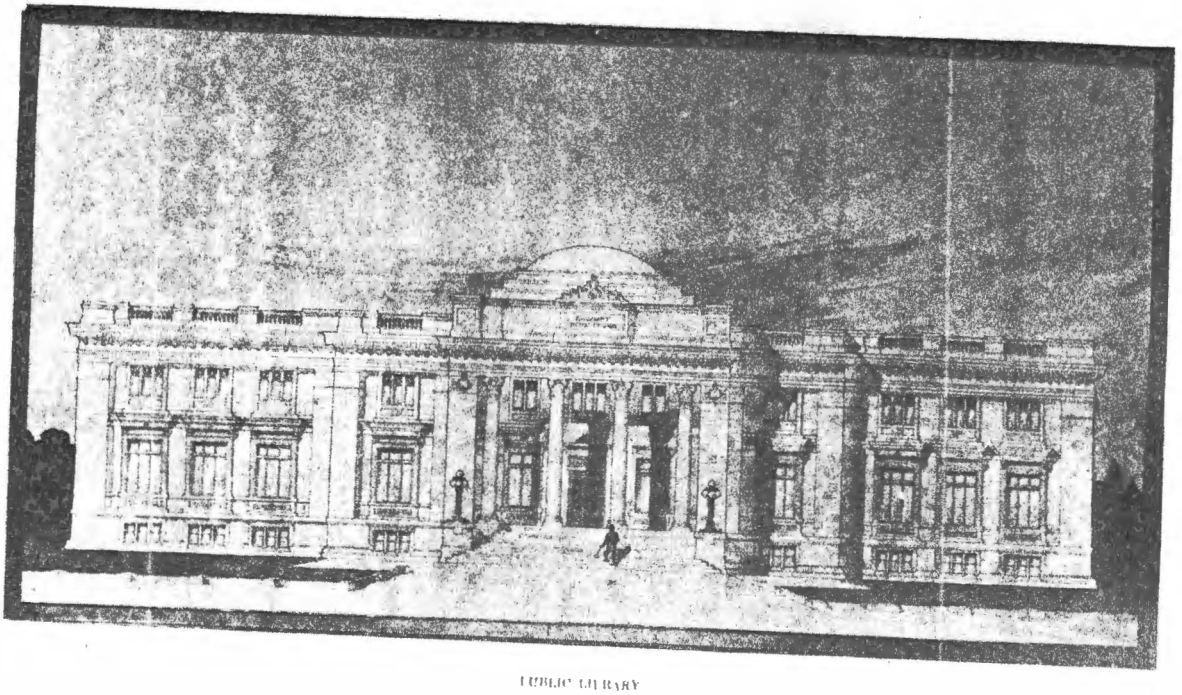
Public Building Design

Advanced architectural design of the fourth year culminates in problems applied to buildings devoted to public purposes. These problems give the students ample opportunity for architectural expression.



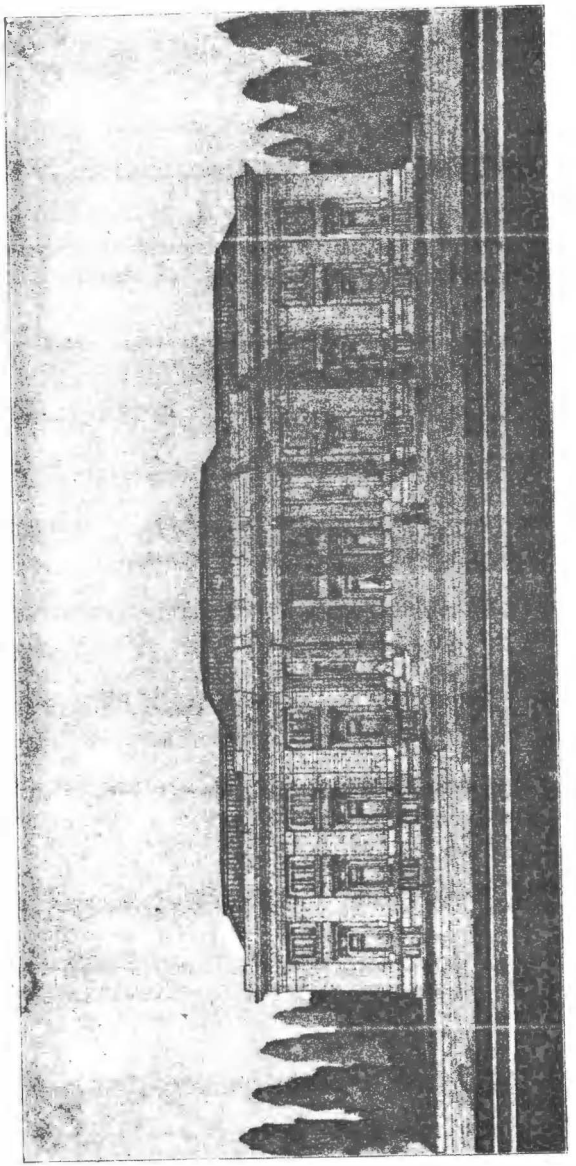
PUBLIC ART GALLERY — H. A. Albrecht

OHIO STATE UNIVERSITY



PUBLIC LIBRARY

ARCHITECTURE



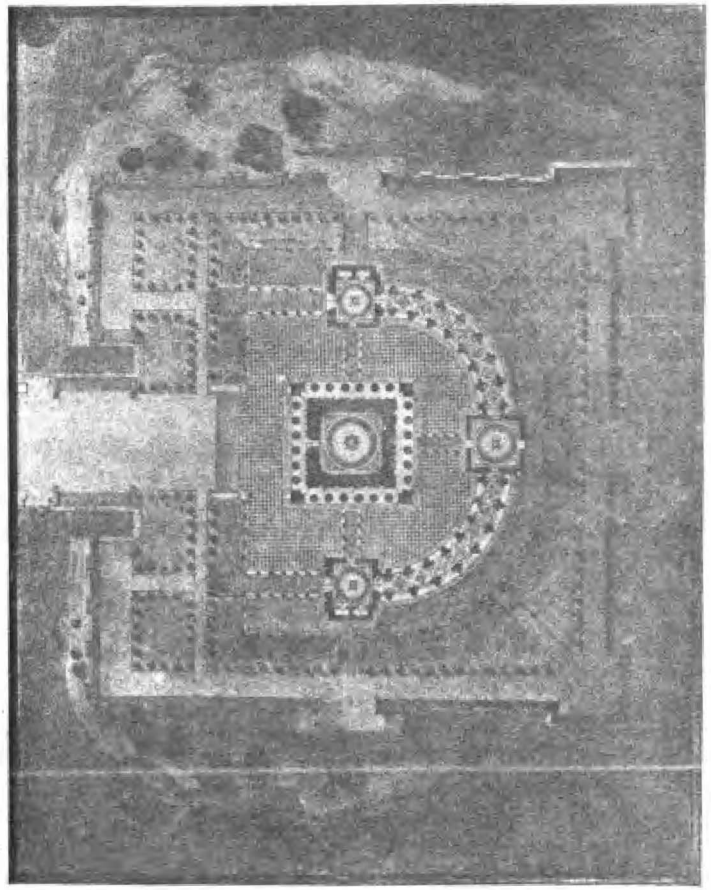
H. G. Allen

PUBLIC LIBRARY

Monumental Design

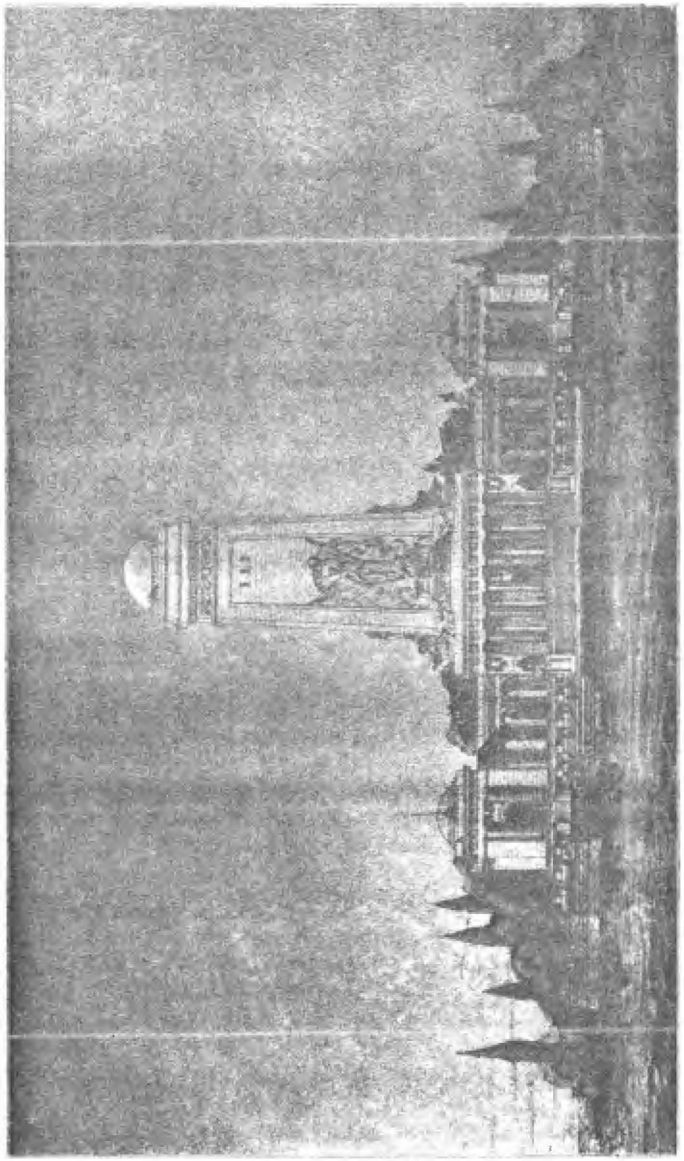
Some event, purpose, or service worthy of commemorating is selected for the problem which must be treated architecturally and be monumental in character.

The design here illustrated is a proposed monument commemorating Perry's Victory on Lake Erie, September 10, 1813, to be erected on Ballast Island close to Put-in-Bay and not far from the scene of the naval engagement.



Antonio Toledo

MONUMENT PLAN

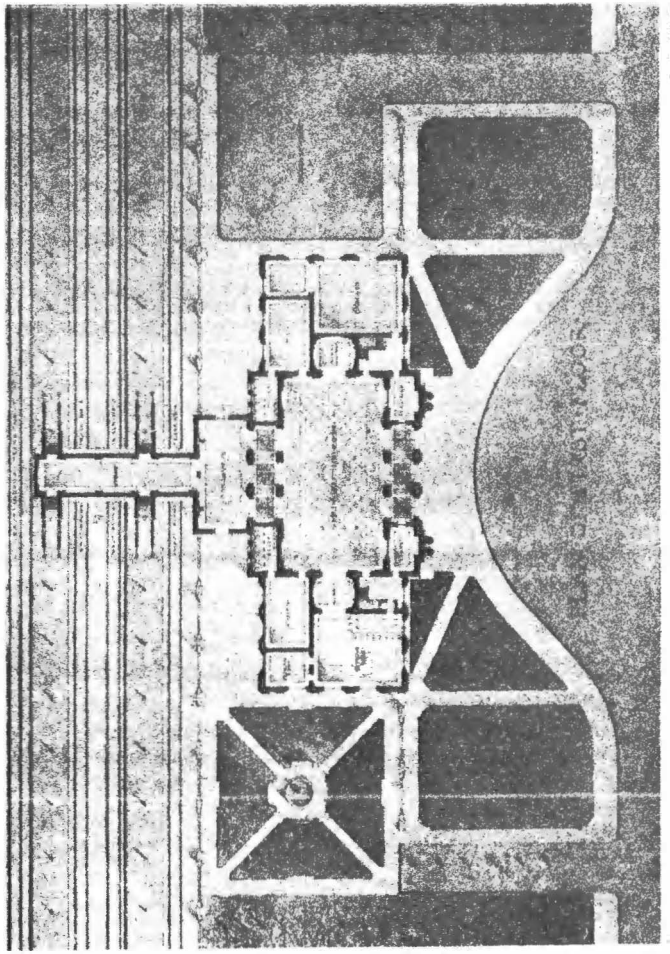


A. Toledo

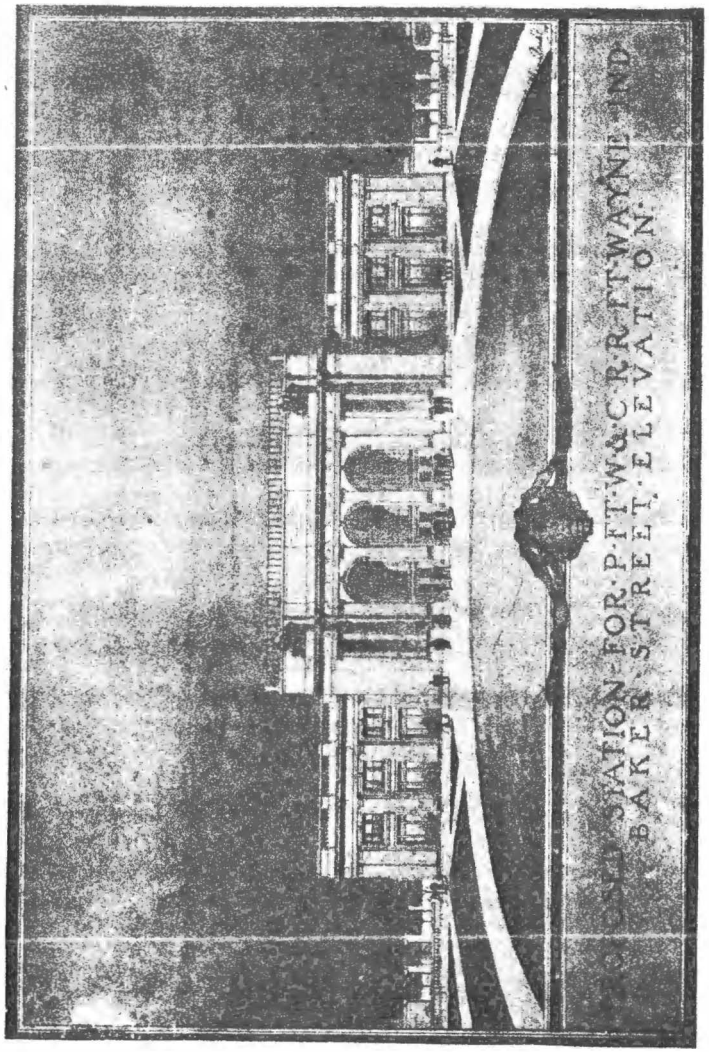
MONUMENT ELEVATION

Thesis

This is the final architectural problem of the course and is required for graduation. A proposed building of importance possessing monumental character is presented by a sufficient number of carefully prepared drawings. These drawings are accompanied by a written discussion of the building and its purpose, specifications, and estimated cost. The literary part of the thesis is typewritten and bound according to the regulations of the University.



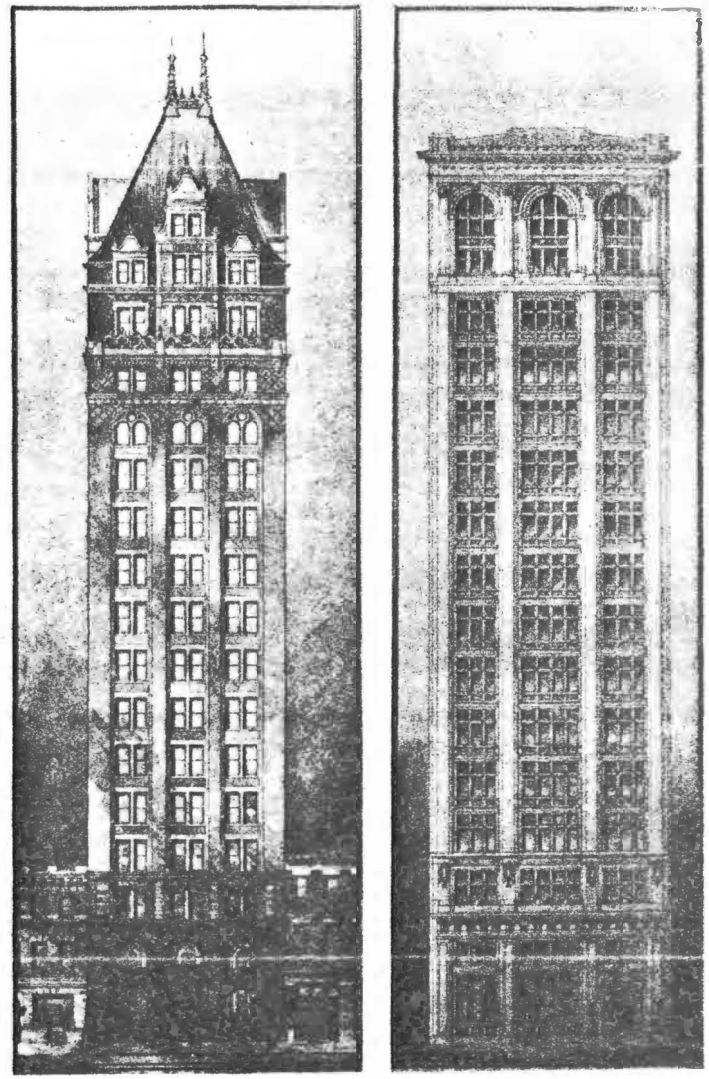
J. T. Gillie



J. T. Gillig

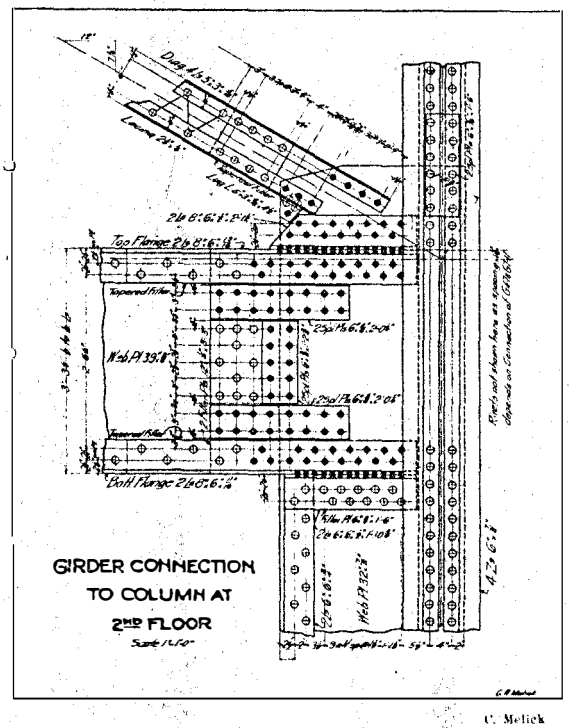
RAILROAD STATION—ELEVATION

Tall Building Design

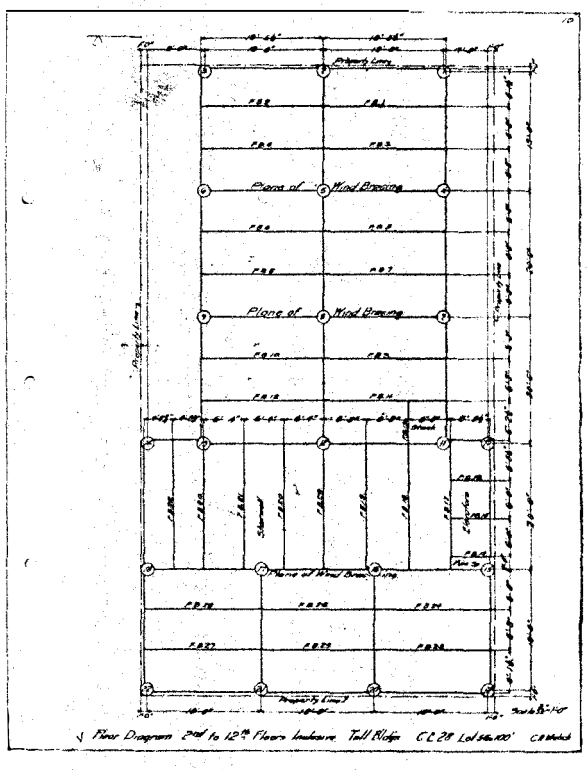


H. J. Albrecht

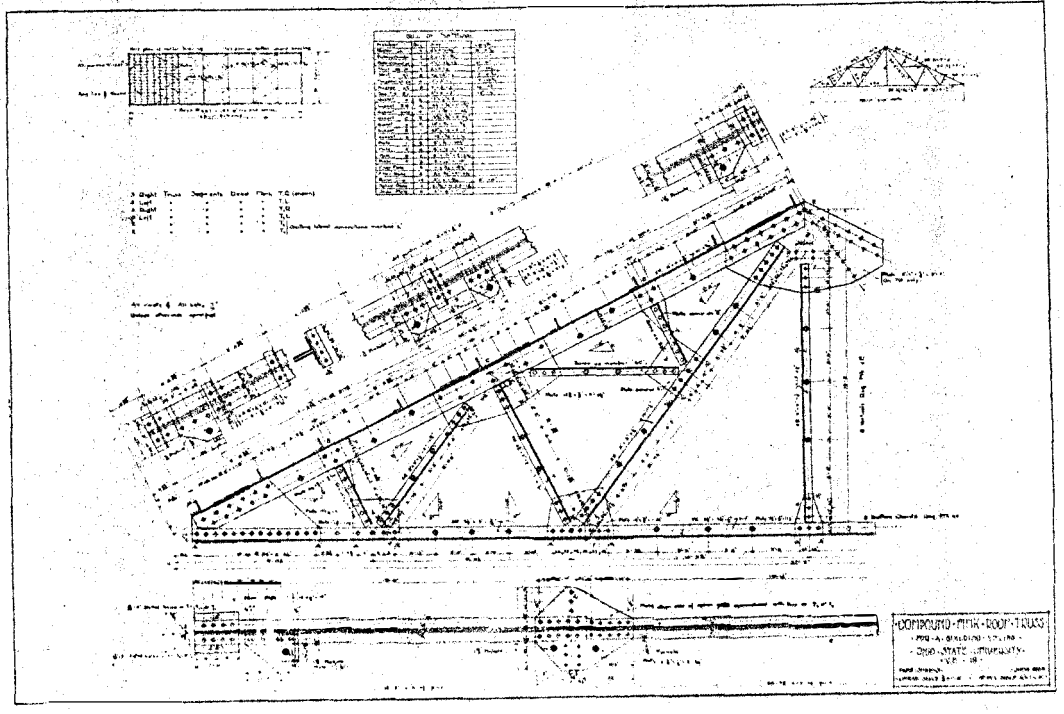
Antonio Tob[illegible]



C. Melick

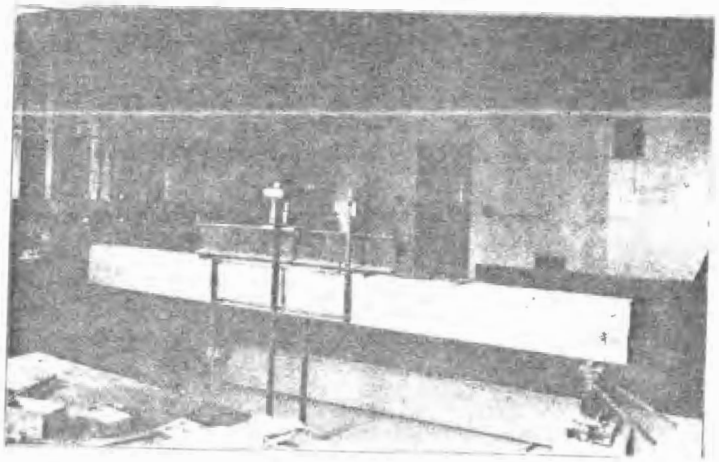


√ Floor Diagram 2nd to 12th Floors Inclusive Tall Ridge CL 28 Lot 54 & 100' C.B. Melick

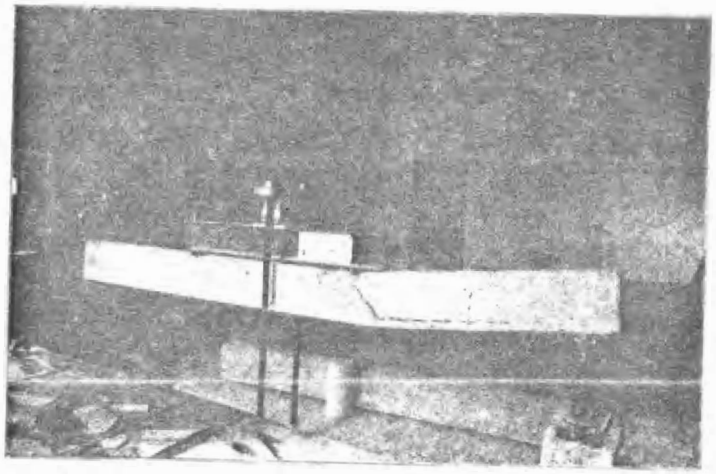


Cement and Reinforced Concrete

Cement and reinforced concrete construction is of such importance in architectural work that a thorough course of the fundamental principles forms a part of the students' training.



REINFORCED CONCRETE READY TO TEST

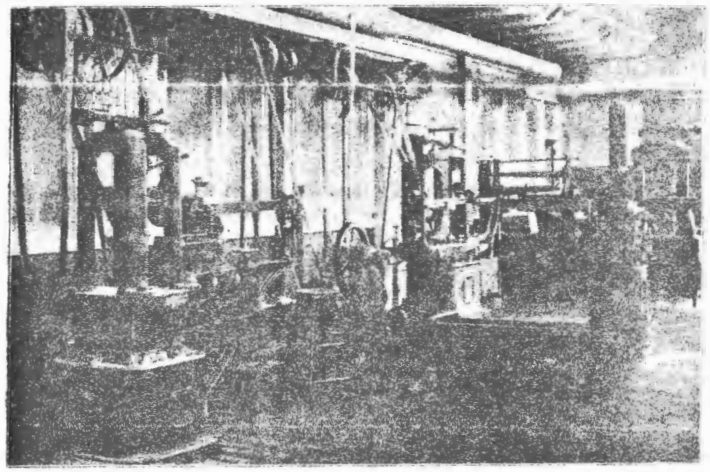


SAME AFTER TEST

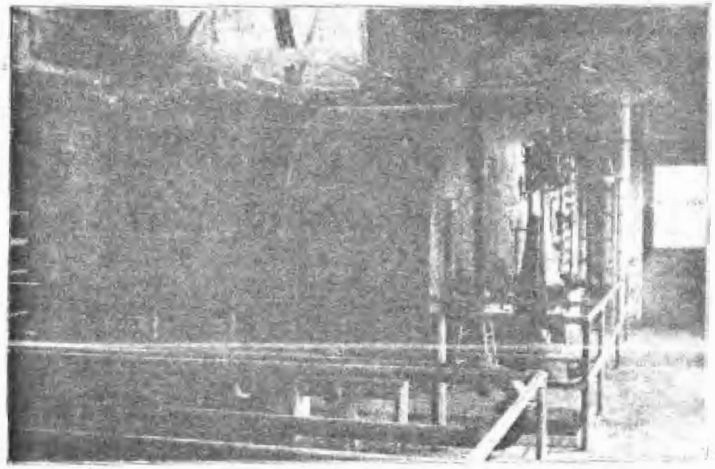
Materials of Construction and Heating and Ventilating

The study of materials of construction is accompanied by a series of laboratory tests of different materials used in construction.

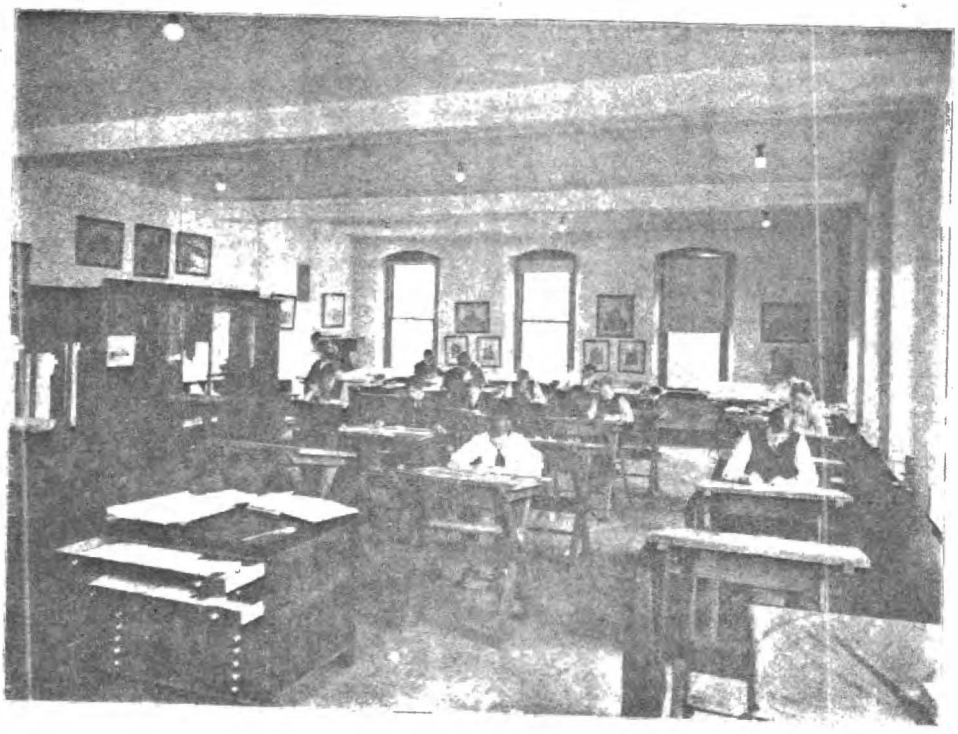
In a similar manner the study of heating and ventilating is supplemented by laboratory experimental work.



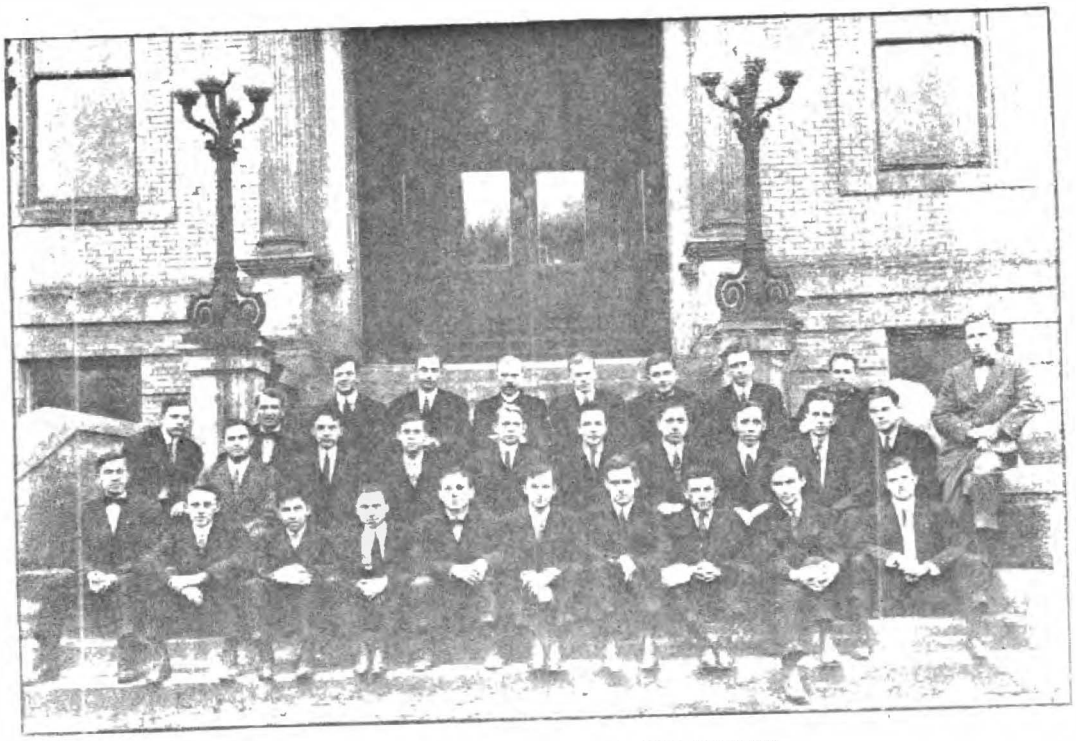
TESTING LABORATORY



EXPERIMENTAL FAN



DESIGNING ROOM



THE ARCHITECTURAL CLUB OF THE OHIO STATE UNIVERSITY

APPENDIX F 2

BULLETINS OF

THE COLLEGE OF ENGINEERING

AND

THE SCHOOL OF ARCHITECTURE

1949 - 50

STABILITY AND CONTROL

Aero. Engineering Stability and Control	(721) 3	Aero. Engineering Aircraft Stability and Control	(722) 3	Aero. Engineering Aircraft Stability and Control	(723) 3
*Technical Elective	3	Aero. Engineering Theory of Compressible Flow	(702) 3	*Technical Elective	9
		*Technical Elective	5		

STRUCTURES

Aero. Engineering Aircraft Flutter and Vibration	(750) 3	Aero. Engineering Aircraft Design	(742) 3	Aero. Engineering Aircraft Design Laboratory	(732) 2
*Technical Elective	3	*Technical Elective	3	Aero. Engineering Aircraft Design	(743) 3
				*Technical Elective	6

FIFTH YEAR

(For B.Aero.E. and M.Sc. degrees)

Autumn Quarter		Winter Quarter		Spring Quarter	
**Aero. Engineering Preliminary Design of Aircraft	(740) 3	Aero. Engineering Aircraft Design Laboratory	(731) 2	**Aero. Engineering	(950) 3
**Aero. Engineering Aircraft Design	(741) 3	**Aero. Engineering Thesis	(950) 3	**Physics Introduction to Theoretical Physics or	(742) 3
**Physics Introduction to Theoretical Physics or	(740) 3	**Physics Introduction to Theoretical Physics or	(741) 3	Mathematics Vector Analysis or	(661) 5
Mathematics Advanced Calculus	(601) 5	Mathematics Theory of Functions of Complex Variables	(607) 5	Mathematics Tensor Analysis	(751) 3
**Option	3	**Option	6	**Option	6
Non-Technical Elective	5	Non-Technical Elective	5	Non-Technical Elective	
Survey of Engineering Senior Assembly	0	Survey of Engineering Senior Assembly	0	Survey of Engineering Senior Assembly	1
Total	17	Total	19	Total	18

NON-TECHNICAL ELECTIVES

The non-technical electives provided in the fourth and fifth years of all curricula must be chosen, with the consent of the advisers, from courses offered in the following areas with the exception of those courses whose descriptions or titles indicate that they are specifically for engineers: Astronomy, Bacteriology, Botany, Economics, English, Fine Arts, Foreign Languages, General Studies, Geography, Geology, (except in Mine and Petroleum Engineering), History, International Studies, Journalism, Music, Philosophy, Political Science, Psychology, Social Administration, Sociology, Speech, and Zoology.

FIFTH YEAR OPTIONS

AERODYNAMICS

Autumn Quarter		Winter Quarter		Spring Quarter	
Aero. Engineering Aircraft Flutter and Vibration	(750) 3	Aero. Engineering Theory of Compressible Flow	(702) 3	*Technical Elective (From 800 courses)	6
		*Technical Elective (From 800 courses)	3		

FLUTTER AND VIBRATION

Aero. Engineering Aircraft Flutter and Vibration	(750) 3	Aero. Engineering Aircraft Flutter and Vibration	(751) 3	*Technical Elective (From 800 courses)	3
		*Technical Elective	3	Aero. Engineering Advanced Flutter and Vibration Study	(851) 3

* Must be approved by the adviser.
** Courses prefixed thus may be taken for graduate credit.

PROPULSION

Mech. Engineering Gas Turbines and Jet Propulsion	(726) 3	Aero. Engineering Theory of Compressible Flow	(702) 3	*Technical Elective (From 800 courses)	6
		*Technical Elective (From 800 courses)	3		

STABILITY AND CONTROL

Aero. Engineering Aircraft Stability and Control	(721) 3	Aero. Engineering Theory of Compressible Flow	(702) 3	*Technical Elective (From 800 courses)	3
		*Technical Elective (From 800 courses)	3		

STRUCTURES

Aero. Engineering Aircraft Flutter and Vibration	(750) 3	Aero. Engineering Aircraft Design Lecture	(742) 3	*Technical Elective (From 800 courses)	6
		*Technical Elective (From 800 courses)	3		

TABULATION OF CURRICULUM REQUIREMENTS

The courses required for a Bachelor of Aeronautical Engineering Degree are as follows:

	Hours
Mathematics 421, 422, 423, 441, 442, 443, 608, 609, 610	39
Chemistry 416, 417, 419	12
Engineering Drawing 401, 403, 405, 427	15
English 410, 411, 412, 510	12
Speech 501	3
Survey of Engineering (First Year)	2
Survey of Engineering (Fifth Year)	1
Military Science (First and Second Years)	12
Physical Education 400, 401, 402, 403	4
Physics 431, 432, 433, 726	18
Economics 403, 404	6
International Studies 401, 402, 403	9
Philosophy 400	3
Mechanics 601, 602, 607, 707	3
Mechanical Engineering 528, 601, 615, 626, 737	21
Industrial Engineering 419	3
Aeronautical Engineering 602, 603, 604, 611, 612, 640, 701, 731, 740, 741, 760	33
Electrical Engineering 642, 644	3
Broadening Electives	15

Options

Aeronautical Engineering, 702, 703, 713, 720, 731, 723, 733, 738, 742, 743, 760, 751, 752, 761	6-17
Mechanics 606	0- 5
Mechanical Engineering 611, 703, 726, 738, 739	0- 6
Physics 604	0- 3
Technical Electives	17-23
Practical Experience or Flight Training	5

ARCHITECTURE AND LANDSCAPE ARCHITECTURE

ARCHITECTURE

Two general options are offered in the course in architecture, both leading to the degree Bachelor of Architecture. The first of these places the emphasis on design, and the second on construction. Students who have entered the course in Architectural Engineering prior to the academic year 1938-1939 will consult with the chairman concerning the scheduling of such courses as may be required for that degree.

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FIRST YEAR

(For First Year Requirements, see page 39)

* Must be approved by the adviser.

SECOND YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Introduction to Architectural Design	(421) 5	Architecture Perspective	(402) 3	Architecture History of Architecture	(546) 3
Architecture History of Architecture	(544) 2	Architecture History of Architecture	(545) 3	Architecture Elementary Architectural Design	(428) 5
Architecture Shades and Shadows	(401) 3	Architecture Elementary Architectural Design	(422) 5	Mechanics Statics	(501) 5
Mathematics Calculus	(441) 5	Physics Mechanics	(451) 5	Fine Arts Freehand Drawing	(402) 3
Photography Photography	(511) 3	Fine Arts Freehand Drawing	(401) 3	Military or Air Science	2
Military or Air Science	2	Military or Air Science	2		
Total	21	Total	21	Total	18

Summer Quarter
Architecture—Practical Experience (419) 5

THIRD YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Elementary Architectural Design	(624) 5	Architecture Intermediate Architectural Design	(625) 5	Architecture Intermediate Architectural Design	(627) 5
Architecture History of Architecture	(547) 3	Architecture History of Architecture	(548) 3	Architecture Theory of Architecture	(403) 3
Architecture Construction: Timber Framing	(640) 5	Architecture Construction Masonry	(641) 5	Architecture Contract Drawings	(638) 3
Fine Arts Advanced Freehand Drawing	(404) 3	Fine Arts Advanced Freehand Drawing	(405) 3	Fine Arts Water Color Painting	(407) 2
Mechanics Strength of Materials	(502) 5	*Elective	3-4	Civil Engineering Cement and Concrete	(606) 3
				Elective	3
Total	21	Total	18-19	Total	18

Summer Quarter
Architecture—Practical Experience (620) 5

FOURTH YEAR

DESIGN OPTION

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Intermediate Architectural Design	(724) 5	Architecture Intermediate Architectural Design	(725) 5	Architecture Advanced Architectural Design	(726) 5
Civil Engineering Trusses	(712) 5	Architecture History of the Decorative Arts	(649) 3	Architecture Ornament	(731) 2
Fine Arts Water Color Painting	(408) 3	Fine Arts Drawing from Life	(411) 3	Architecture Theory of Architecture	(605) 2
Architecture Theory of Architecture	(604) 3	Architecture Materials of Construction	(642) 5	Fine Arts Drawing from Life	(412) 3
Elective	2	Civil Engineering Reinforced Concrete Design	(713) 5	Civil Engineering Surveying	(412) 5
Total	18	Total	21	Total	18

CONSTRUCTION OPTION

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Construction: Design	(742) 6	Architecture Materials of Construction	(642) 5	Architecture Construction: Design	(742) 6
Civil Engineering Trusses	(712) 5	Physics Heat, Sound and Light	(432) 5	Civil Engineering Surveying	(412) 5
Elective	2	Mech. Engineering Heating, Ventilating, and Air Conditioning	(552) 4	Physics Electricity and Magnetism	(433) 5
		Civil Engineering Reinforced Concrete Design	(713) 5	Elective	2
Total	18	Total	19	Total	18

Summer Quarter—Both Options
Architecture—Practical Experience (720) 5

* Students taking the construction option must elect Mechanics 405.

FIFTH YEAR

DESIGN OPTION

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Advanced Architectural Design	(727) 8	Architecture Advanced Architectural Design	(728) 8	Architecture Advanced Architectural Design	(730) 8
Architecture Professional Practice: Specifications and Contracts	(751) 2	Architecture Professional Practice: Estimates and Building Supervision	(752) 2	Architecture Professional Practice: Organization and Ethical Relations	(753) 2
Architecture Building Sanitation	(737) 2	Mech. Engineering Heating, Ventilating, and Air Conditioning	(552) 4	Elective	5
Elective	5	Elective	3	Architecture Fire Protection	(743) 2
Total	17	Total	17	Total	17

CONSTRUCTION OPTION

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Construction: Design	(744) 5	Architecture Construction: Design	(745) 5	Architecture Construction: Design	(746) 5
Architecture Professional Practice: Specifications and Contracts	(751) 2	Architecture Professional Practice: Estimates and Building Supervision	(752) 2	Architecture Professional Practice: Organization and Ethical Relations	(753) 2
Civil Engineering Rigid Frame Structures	(733) 3	English Advanced English for Engineers	(519) 3	Architecture Thesis	(762) 5
Architecture Building Sanitation	(737) 2	Elective	8	Elective	3
Elective	6			Architecture Fire Protection	(743) 2
Total	18	Total	18	Total	17

All fifth year electives are subject to the approval of the Chairman of the department. Not less than fifteen elective hours shall be taken outside the Engineering College.

In cases of exceptional students, Architecture 749, Thesis, 8 credit hours, may be substituted for Architecture 750.

The total number of hours required for graduation is 300.

LANDSCAPE ARCHITECTURE

The curriculum in Landscape Architecture is designed to give the student a background for professional practice, an understanding of design, and a foundation of technical knowledge to aid him in carrying out his work.

This curriculum leads to the degree Bachelor of Landscape Architecture.

FIRST YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Engr. Drawing Principles	(401) 4	Engr. Drawing Descriptive Geometry	(403) 4	Mathematics College Algebra	(421) 5
Botany General Botany	(401) 5	Botany General Botany	(402) 5	Geology General Geology	(401) 5
English Composition	(410) 3	English Composition	(411) 3	English Composition	(412) 3
Fine Arts Basic Art	(421) 5	Fine Arts Free Hand Drawing	(423) 5	Landscape Architecture Theory of Landscape Design	(412) 3
Military or Air Science	2	Military or Air Science	2	Military or Air Science	2
Survey of Engineering	(401) 1	Survey of Engineering	(402) 1	Physical Education Hygiene	(490) 1
Physical Education	1	Physical Education	1		
Total	21	Total	21	Total	19

SECOND YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Introduction to Architectural Design	(421) 5	Architecture Elementary Architectural Design	(422) 5	Architecture Elementary Architectural Design	(423) 5
Architecture Shades and Shadows	(401) 3	Architecture Perspective	(402) 3	Civil Engineering Elementary Surveying	(412) 5
Mathematics Trigonometry	(422) 5	Landscape Architecture History of Landscape Architecture	(543) 3	English	5
Landscape Architecture History of Landscape Architecture	(542) 3	Social Science	5	Fine Arts Water Color Painting	(407) 2
Military or Air Science	2	Military or Air Science	2	Military or Air Science	2
Physical Edu. (Women)	(1)	Physical Edu. (Women)	(1)	Physical Edu. (Women)	(1)
Total	18	Total	18	Total	19

SUMMER QUARTER

Landscape Architecture Practical Experience (620) 5

THIRD YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Landscape Arch. Intermediate Landscape Design	(501) 5	Landscape Arch. Intermediate Landscape Design	(502) 5	Landscape Arch. Intermediate Landscape Design	(503) 5
Fine Arts History of the Fine Arts through the Ages	(501) 3	Fine Arts History of the Fine Arts through the Ages	(502) 3	Fine Arts History of the Fine Arts through the Ages	(503) 3
Horticulture Ornamental Plants	(550) 5	Landscape Arch. Landscape Construction	(532) 5	Landscape Arch. Landscape Construction	(533) 5
Fine Arts Water Color Painting	(405) 3	Horticulture Ornamental Plants	(551) 5	Horticulture Ornamental Plants	(552) 5
Total	16	Total	18	Total	18

Summer Quarter

Landscape Architecture—Practical Experience (720) 5

FOURTH YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Landscape Arch. Advanced Landscape Design	(604) 3	Architecture An Introduction to Town and Regional Planning	(636) 2	Landscape Arch. Advanced Landscape Design	(606) 3
Landscape Arch. Planting Design	(624) 3	Landscape Arch. Advanced Landscape Design	(605) 3	Landscape Arch. Planting Design	(626) 5
Landscape Arch. Landscape Construction	(634) 5	Landscape Arch. Planting Design	(625) 5	Elective	5
		Elective	5		
Total	18	Total	20	Total	18

The total number of hours required for graduation in Landscape Architecture is 241.

CERAMIC ENGINEERING—FIVE-YEAR CURRICULUM

The following curriculum indicates the requirements for the degrees Bachelor of Ceramic Engineering and Master of Science. For the latter the student must fulfill the extra requirements shown in the fourth and fifth years and on page 14.

FIRST YEAR

(For First Year Requirements, see page 39)

SECOND YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Mathematics Calculus	(441) 5	Mathematics Calculus	(442) 5	Mathematics Calculus	(443) 5
Physics Mechanics	(431) 5	Physics Heat, Sound and Light	(432) 5	Physics Electricity and Magnetism	(433) 5
Chemistry Quantitative	(421) 3	Chemistry Quantitative	(422) 3	Metallurgy Ceramic Analysis	(458) 2
Mineralogy Crystallography and Descriptive Mineralogy	(406) 5	Ceramic Engineering Introduction to Ceramics	(401) 4	Ceramic Engineering Winning, Preparation and Forming	(405) 3
Military or Air Science	2	Military or Air Science	2	Military or Air Science	2
Total	20	Total	19	Total	18

THIRD YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Chemistry Physical Chemistry	(630) 5	Ceramic Engineering Physical and Chemical Measurements	(620) 5	Mineralogy Thermochemical Mineralogy	(605) 5
Ceramic Engineering Ceramic Calculations	(615) 5	Mechanics Statics	(601) 5	Ceramic Engineering Elements of Ceramic Plant Engineering	(608) 5
Metallurgy Pyrometry	(650) 2	Metallurgy Fuels	(651) 3	Geography Fundamentals of Economic Geography	(503) 3
Engineering Drawing Technical Drawing	(426) 3	Metallurgy Fuels Laboratory	(658) 2	Mechanics Strength of Materials	(602) 5
Economics Principles of Economics for Engineers	(403) 3	Economics Principles of Economics for Engineers	(404) 3		
Total	18	Total	18	Total	18
		Ceramic Engineering Inspection Trip	(630) 2		

Summer Quarter

Ceramic Engineering Industrial Experience (480) 5

FOURTH YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Electrical Engineering Electrical Engineering	(642) 4	*Ceramic Engineering Kilns and Theory of Firing	(718) 5	Electrical Engineering Electrical Engineering-Electronics	(644) 4
*Ceramic Engineering Driers and Theory of Drying	(712) 5	Political Science Introduction to Political Science	(599) 3	Ceramic Engineering Bodies, Glazes and Colors	(605) 4
Ceramic Engineering General Glass Technology	(625) 5	Speech Principles of Effective Speaking	(501) 3	Ceramic Engineering Refractories	(610) 5
Accounting Outline of Accounting	(405) 5	Ceramic Engineering Vitreous Enamels for Metals	(627) 3	English Advanced English for Engineers	(519) 3
		Technical Elective	3	Psychology Psychological Problems in Engineering	(501) 3
Total	19	Total	17	Total	19
		Ceramic Engineering Inspection Trip	(730) 2		

Summer Quarter

Ceramic Engineering Industrial Experience (481) 5

* These courses to be used in Graduate School program by student working for Master's degree.

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II. CURRICULUM IN ARCHITECTURE

The School of Architecture is a professional school with a curriculum designed to educate young men and women for the professional practice of architecture. The five-year curriculum is based on a broad background of cultural courses balanced with an integrated program of professional subjects. The professional sequences are offered once each year commencing in the Autumn Quarter.

Since the academic training in architecture is only a part of the continuous, lifetime, educational process, the student is encouraged to develop, think, and learn as an individual so that in professional life he may continue the process in helping him to meet and solve the ever-changing social and architectural problems of the future.

Throughout the five years of academic training the student is challenged constantly to apply his acquired fundamental knowledge and skills to the solving of specific architectural problems. The major course of study is architectural design—the creation of a useful and artistic physical environment in buildings to satisfy human needs, involving the program of a building, analysis and library research and finally the execution of the solution embodying adequate structure, materials, color, and incorporation of necessary building services. Parallel to and integrated with architectural design are courses in the theory and application of architectural construction and materials, architectural building equipment, historical analysis of architectural forms and related courses in the fields of city planning and the fine arts.

During the summer months all students are urged to secure employment in the offices of practicing architects or in actual construction.

Upon the successful completion of the undergraduate program, for which the degree of Bachelor of Architecture is awarded, and after a reasonable period of apprenticeship training in the employ of a practicing architect, the graduate should be prepared adequately to take the professional examinations for registration to practice architecture.

NEW CURRICULUM EFFECTIVE 1951-1952

FIRST YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Introductory Architectural Design	(411) 5	Architecture Introductory Architectural Design	(412) 5	Architecture Introductory Architectural Design	(413) 5
Mathematics College Algebra	(421) 5	Mathematics Trigonometry	(422) 5	Mathematics Analytical Geometry and Calculus	(440) 5
English	(410) 3	English	(411) 3	English	(413) 3
Fine Arts Introduction to Fine Arts	(401) 3	Fine Arts Three-dimensional Problems	(416) 2	Fine Arts Drawing	(417) 1
Military or Air Science	2	Architecture Elements of Architecture	(400) 1	Military or Air Science	2
Physical Education	(401) 1	Military or Air Science	2	Physical Education	(403) 1
		Physical Education	(402) 1	Physical Education	(400) 1
	19		19		18

SECOND YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Elementary Architectural Design	(511) 4	Architecture Elementary Architectural Design	(512) 4	Architecture Elementary Architectural Design	(513) 4
Mechanics Statics	(511) 5	Mechanics Statics, Dynamics, Strength of Materials	(512) 5	Mechanics Strength of Materials	(513) 5
Architecture Elementary Architectural Construction	(521) 3	Architecture Elementary Architectural Construction	(522) 3	Architecture Elementary Architectural Construction	(523) 3
Architecture History: Ancient Period	(501) 2	Architecture History: Medieval Period	(502) 2	Architecture History: Renaissance and Baroque	(503) 2
Fine Arts Sculpture	(511) 1	Fine Arts Design	(512) 1	Fine Arts Drawing	(513) 1
Military or Air Science	2	Military or Air Science	2	Military or Air Science	2
	17		17		17

THIRD YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Intermediate Architectural Design	(611) 4	Architecture Intermediate Architectural Design	(612) 4	Architecture Intermediate Architectural Design	(613) 4
Architecture Intermediate Architectural Construction	(621) 3	Architecture Intermediate Architectural Construction	(622) 3	Architecture Intermediate Architectural Construction	(623) 3
Architecture Architectural Building Equipment	(661) 3	Architecture Architectural Building Equipment	(662) 3	Architecture Architectural Building Equipment	(663) 3
Architecture History: 18th and 19th Centuries	(601) 2	Architecture History: 20th Century	(602) 2	Architecture Contemporary Forms	(603) 2
History The Western World	(421) 5	History The Western World	(422) 5	History The Western World	(423) 5
Fine Arts Advanced Design	(611) 1	Fine Arts Special Design Problems	(612) 1	Fine Arts Life Drawing	(613) 1
	18		18		18

FOURTH YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Advanced Architectural Design	(711) 5	Architecture Advanced Architectural Design	(712) 5	Architecture Advanced Architectural Design	(713) 5
Architecture Advanced Architectural Construction	(721) 5	Architecture Advanced Architectural Construction	(722) 5	Architecture Advanced Architectural Construction	(723) 5
Architecture Building Groups	(701) 2	Architecture Community Patterns	(702) 2	Architecture Urbanism	(703) 2
Sociology Fundamentals	(507) 5	Economics Fundamentals	(507) 5	Political Science Government	(507) 5
Fine Arts Illustrative Drawing	(711) 1	Fine Arts Advanced Sculpture	(712) 1	Fine Arts Technical Problems	(713) 1
	18		18		18

FIFTH YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
Architecture Advanced Architectural Design and Thesis	(714) 8	Architecture Thesis	(715) 10	Architecture Thesis	(716) 10
Architecture Professional Practice	(751) 2	Architecture Professional Practice	(752) 2	Architecture Professional Practice	(753) 2
Architecture Allied Arts	(704) 2	Electives	3-5	Electives	3-5
Electives	3-5				
	15-17		15-17		15-17

The total number of hours required for the degree of Bachelor of Architecture is 260.

ELECTIVES

The non-technical electives provided in the fifth year are intended to enable the student to broaden his educational experience in other fields not necessarily related to architecture. The course of study elected should be guided by the student's particular interest and abilities.

The elective program is taken with the consent of the faculty adviser, who has information on individual courses or areas of study.

Suggested electives are: Physical, Natural, and Social Sciences, English, Fine Arts, Music, Languages, Journalism, Photography, Business, and Law.

TRANSITIONAL CURRICULUM IN ARCHITECTURE

To take care of students presently enrolled in the old curriculum, the following transitional requirements have been set up. For a complete description of courses in the old and transitional curriculum refer to page 20.

1. For students who have completed three years of the old and transitional curriculum:

The following transitional curriculum will be required, and the total number of hours required for graduation is 284.

FOURTH YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture Advanced Architectural Design	(711)	5	Architecture Advanced Architectural Design	(712)	5	Architecture Advanced Architectural Design	(713)	5
Architecture Advanced Architectural Construction	(781)	5	Architecture Advanced Architectural Construction	(782)	5	Architecture Advanced Architectural Construction	(783)	5
Architecture Theory of Architecture	(604)	3	Architecture History of the Decorative Arts	(649)	3	Architecture Ornament	(731)	3
Elective		5	Architecture Fire Protection	(748)	2	Architecture Theory of Architecture	(605)	2
			Elective		3	Architecture Urbanism	(703)	2
		18			18			17

FIFTH YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture Advanced Architectural Design and Thesis	(714)	8	Architecture Thesis	(715)	10	Architecture Thesis	(716)	10
Architecture Professional Practice	(751)	2	Architecture Professional Practice	(752)	2	Architecture Professional Practice	(753)	2
Architecture Architectural Building Equipment	(661)	3	Architecture Architectural Building Equipment	(662)	3	Architecture Architectural Building Equipment	(663)	3
Elective		5	Elective		3	Elective		3
		18			18			18

2. For students who have completed four years of the old and transitional curriculum:

The following fifth year will be required and the total number of hours required for graduation is 280.

FIFTH YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture Architectural Design	(727)	8	Architecture Architectural Design	(728)	8	Architecture Architectural Design	(729)	8
Architecture Professional Practice	(751)	2	Architecture Professional Practice	(752)	2	Architecture Professional Practice	(753)	2
Architecture Architectural Building Equipment	(661)	3	Architecture Architectural Building Equipment	(662)	3	Architecture Architectural Building Equipment	(663)	3
Elective		5	Elective		5	Elective		5
		18			18			18

III. CURRICULUM IN LANDSCAPE ARCHITECTURE

Landscape Architecture is a social art directed to the creation of an environment for human use and enjoyment. It differs from architecture in that its designers work with outdoor rather than enclosed space. Their medium is nature, their structural materials, for the most part, plants and land forms. The most important function of the landscape architect is to plan for convenience, enjoyment, and health, and, throughout this planning, to preserve and create beauty.

It is, therefore, preeminently a field for young men and women who have a love of nature, a perception of human values as related to the out-of-doors and imagination to express this perception in practical design.

The sequence of courses is carefully planned to give the student what he needs most at each stage of his development. Through the study of landscape design, construction, architecture, and horticulture, he acquires the knowledge and skill required for his professional practice. At the same time he undertakes a program of general studies to make him aware of the scope of his work and to help him formulate an individual philosophy with regard to it. An opportunity is given, through collaborative problems with students in architecture and the fine arts, to establish the working relationships which are so important to successful achievement later on. Numerous field trips—some to nearby state parks or private gardens, others to places as far away as Cranbrook or Williamsburg—acquaint the student with the requirements of various habitats and the range of accomplishment in the profession.

The curriculum is accredited by the American Society of Landscape Architects. Upon the successful completion of this four-year course of study the degree of Bachelor of Landscape Architecture is awarded.

CURRICULUM IN LANDSCAPE ARCHITECTURE

FIRST YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture Introductory Architectural Design	(411)	5	Architecture Introductory Architectural Design	(412)	5	Architecture Introductory Architectural Design	(413)	5
Mathematics College Algebra	(421)	5	Mathematics Trigonometry	(422)	5	Geology General Geology	(401)	5
English Composition	(410)	3	English Composition	(411)	3	English Composition	(412)	3
Fine Arts Introduction to Fine Arts	(401)	3	Fine Arts Three-Dimensional Problems	(416)	2	Fine Arts Drawing	(417)	1
Military or Air Science		2	Military or Air Science		2	Military or Air Science		2
Physical Education	(401)	1	Physical Education	(402)	1	Physical Education	(403)	1
						Physical Education Hygiene	(400)	1
		19			18			18

SECOND YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture (511) Elementary Architectural Design		4	Architecture (512) Elementary Architectural Design		4	Architecture (513) Elementary Architectural Design		4
Civil Engineering (412) Elementary Surveying		5	Landscape Architecture (588) Landscape Construction		4	Landscape Architecture (589) Landscape Construction		4
Landscape Architecture (507) History of Landscape Architecture		3	Landscape Architecture (508) History of Landscape Architecture		3	Fine Arts (513) Drawing		1
Fine Arts (511) Sculpture		1	Fine Arts (512) Design		1	Botany (402) General Botany		5
Speech (501) Principles of Effective Speaking		3	Botany (491) General Botany		5	English (519) The Professional Report		3
Military or Air Science		2	Military or Air Science		2	Military or Air Science		2
Physical Education (425) (Women)		1	Physical Education (426) (Women)		1	Physical Education (427) (Women)		1
		17 or 18			18 or 19			18 or 19
			Landscape Architecture (620) Practical Experience		5			

THIRD YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Landscape Architecture (617) Intermediate Landscape Design		5	Landscape Architecture (618) Intermediate Landscape Design		5	Landscape Architecture (619) Intermediate Landscape Design		5
Landscape Architecture (687) Landscape Construction		4	Landscape Architecture (688) Landscape Construction		4	Landscape Architecture (689) Landscape Construction		4
Fine Arts (611) Advanced Design		1	Fine Arts 612) Special Design Problems		1	Landscape Architecture (629) Planting Design		5
Fine Arts (494) Bases of Contemporary Art		3	Fine Arts (495) Bases of Contemporary Art		3	Fine Arts (613) Life Drawing		1
Horticulture (550)		5	Horticulture (551)		5	Fine Arts (496) Bases of Contemporary Art		3
		18			18			18
			Landscape Architecture (720) Practical Experience		5			

FOURTH YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Landscape Architecture (717) Advanced Landscape Design		8	Landscape Architecture (718) Advanced Landscape Design		8	Landscape Architecture (719) Advanced Landscape Design		8
Landscape Architecture (727) Planting Design		5	Landscape Architecture (726) Planting Design		5	Landscape Architecture (759) Professional Practice		2
Fine Arts (711) Illustrative Drawing		1	Architecture (702) Community Patterns		2	Architecture (703) Urbanism		2
Elective		5	Fine Arts (712) Sculpture		1	Fine Arts (713) Technical Problems		1
			Elective		3	Elective		5
		19			19			18

Total number of hours required for the degree Bachelor of Landscape Architecture is 231.

ELECTIVES

The non-technical electives in the fourth year enable the student to broaden his educational experiences in other fields not necessarily related to landscape architecture. The course of study elected should be guided by the students' particular interest and abilities.

The elective program is taken with the consent of the faculty adviser, who has information on individual courses or areas of study.

Suggested electives are in the fields of: Physical, Natural, and Social Sciences, English, Fine Arts, Music, Languages, Journalism, Photography, Business, and Law.

IV. DESCRIPTION OF COURSES

ARCHITECTURE

Office, 106 Brown Hall

400. Elements of Architecture. One credit hour. Winter Quarter. Architecture, first year. One lecture each week.

A course of lectures on the nature of architecture to assist the new student in orienting himself to the course of study ahead in architecture.

HISTORICAL ANALYSIS OF ARCHITECTURAL FORMS

This series of lecture courses deals with the historical analysis of architectoral forms, structurally and aesthetically, from antiquity to the present, with particular reference to social and economic influences. Each course is scheduled for two lectures per week, supplemented with required outside readings, papers, and sketches.

‡501. Historical Analysis. Two credit hours. Autumn Quarter. Architecture, second year. Mr. Ronan.

Architecture in antiquity through the periods of Greece and Rome.

‡502. Historical Analysis. Two credit hours. Winter Quarter. Architecture, second year. Mr. Ronan.

Architecture of the Medieval period.

‡503. Historical Analysis. Two credit hours. Spring Quarter. Architecture, second year. Mr. Ronan.

Architecture of the Renaissance including the Baroque.

‡601. Historical Analysis. Two credit hours. Autumn Quarter (1952-1953). Architecture, third year. Mr. Borchers.

Architecture of the 18th and 19th Centuries, with special emphasis on the Oriental influences.

‡602. Historical Analysis. Two credit hours. Winter Quarter (1952-1953). Architecture, third year. Mr. Borchers.

Architecture of the 20th Century.

603. Historical Analysis. Two credit hours. Spring Quarter (1952-1953). Architecture, third year. Prerequisite, Architecture 612 and 622. Mr. Baumer.

An analysis of contemporary forms.

701. Historical Analysis. Two credit hours. Autumn Quarter (1953-1954). Architecture, fourth year. Prerequisite, Architecture 603, 613, and 623. Mr. Baumer.

An analysis of contemporary, architectural building groups.

‡702. Historical Analysis. Two credit hours. Winter Quarter (1953-1954). Architecture and Landscape Architecture, fourth year. Mr. Tobey.

A review of the evolution of community patterns.

‡703. Historical Analysis. Two credit hours. Spring Quarter. Architecture and Landscape Architecture, fourth year. Mr. Sutton.

An introductory study of the theory and practice of city and regional planning.

Not open to students who have credit for Architecture 666.

‡704. Historical Analysis. Two credit hours. Autumn Quarter (1954-1955). Architecture, fifth year. Mr. Ronan.

The allied arts and their relation to architecture.

‡ Courses marked thus are a part of the offering to students not majoring in Architecture.

NOTE: Dates in parentheses indicate the first academic year in which the course is to be offered.

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II. CURRICULUM IN ARCHITECTURE

The School of Architecture is a professional school with a curriculum designed to educate young men and women for the professional practice of architecture. The five-year curriculum is based on a broad background of cultural courses balanced with an integrated program of professional subjects. The professional sequences are offered once each year commencing in the Autumn Quarter.

Since the academic training in architecture is only a part of the continuous, lifetime, educational process, the student is encouraged to develop, think, and learn as an individual so that in professional life he may continue the process in helping him to meet and solve the ever-changing social and architectural problems of the future.

Throughout the five years of academic training the student is challenged constantly to apply his acquired fundamental knowledge and skills to the solving of specific architectural problems. The major course of study is architectural design—the creation of a useful and artistic physical environment in buildings to satisfy human needs, involving the program of a building, analysis and library research and finally the execution of the solution embodying adequate structure, materials, color, and incorporation of necessary building services. Parallel to and integrated with architectural design are courses in the theory and application of architectural construction and materials, architectural building equipment, historical analysis of architectural forms and related courses in the fields of city planning and the fine arts.

During the summer months all students are urged to secure employment in the offices of practicing architects or in actual construction.

Upon the successful completion of the undergraduate program, for which the degree of Bachelor of Architecture is awarded, and after a reasonable period of apprenticeship training in the employ of a practicing architect, the graduate should be prepared adequately to take the professional examinations for registration to practice architecture.

The curriculum is fully accredited by the National Architectural Accrediting Board.

CURRICULUM IN ARCHITECTURE

FIRST YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture Introductory Architectural Design	(411)	5	Architecture Introductory Architectural Design	(412)	5	Architecture Introductory Architectural Design	(413)	5
Mathematics College Algebra	(421)	5	Mathematics Trigonometry	(422)	5	Mathematics Analytical Geometry and Calculus	(440)	5
English	(416)	3	English	(417)	3	English	(418)	3
Fine Arts Drawing	(418)	2	Fine Arts Drawing	(419)	2	Fine Arts Drawing	(420)	2
Military or Air Science		2	Architecture Elements of Architecture	(400)	1	Military or Air Science		2
Physical Education	(401)	1	Military or Air Science		2	Physical Education	(403)	1
			Physical Education	(402)	1	Physical Education	(400)	1
		18			19			19

SECOND YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture Elementary Architectural Design	(511)	4	Architecture Elementary Architectural Design	(512)	4	Architecture Elementary Architectural Design	(513)	4
Engineering Mechanics Applied Mechanics I	(511)	5	Engineering Mechanics Applied Mechanics II	(512)	5	Engineering Mechanics Applied Mechanics III	(513)	5
Architecture Elementary Architectural Construction	(521)	3	Architecture Elementary Architectural Construction	(522)	3	Architecture Elementary Architectural Construction	(523)	3
Architecture History: Ancient Period	(501)	2	Architecture History: Medieval Period	(502)	2	Architecture History: Renaissance and Baroque	(503)	2
Fine Arts Color	(536)	3	Fine Arts Sculpture	(537)	3	Fine Arts Design Materials	(574)	3
Military or Air Science		2	Military or Air Science		2	Military or Air Science		2
		19			19			19

THIRD YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture Intermediate Architectural Design	(611)	4	Architecture Intermediate Architectural Design	(612)	4	Architecture Intermediate Architectural Design	(613)	4
Architecture Intermediate Architectural Construction	(621)	3	Architecture Intermediate Architectural Construction	(622)	3	Architecture Intermediate Architectural Construction	(623)	3
Architecture Architectural Building Equipment	(661)	4	Architecture Architectural Building Equipment	(662)	4	Architecture Architectural Building Equipment	(663)	4
Architecture History: 18th and 19th Centuries	(601)	2	Architecture History: 20th Century	(602)	2	Architecture Contemporary Forms	(603)	2
History The Western World	(421)	5	History The Western World	(422)	5	History The Western World	(423)	5
		18			18			18

FOURTH YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture Advanced Architectural Design	(711)	5	Architecture Advanced Architectural Design	(712)	5	Architecture Advanced Architectural Design	(713)	5
Architecture Advanced Architectural Construction	(781)	5	Architecture Advanced Architectural Construction	(782)	5	Architecture Advanced Architectural Construction	(783)	5
Architecture Building Groups	(701)	2	Architecture Community Patterns	(702)	2	Architecture Urbanism	(703)	2
Sociology Fundamentals	(507)	5	Economics Fundamentals	(507)	5	Political Science Government	(507)	5
		17			17			17

FIFTH YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture Advanced Architectural Design and Thesis	(714)	8	Architecture Thesis	(715)	10	Architecture Thesis	(716)	10
Architecture Professional Practice	(754)	2	Architecture Professional Practice	(755)	2	Architecture Professional Practice	(756)	2
Architecture Allied Arts	(704)	2	Electives		3-5	Electives		3-5
Electives		3-5						
		15-17			15-17			15-17

The total number of hours required for the degree of Bachelor of Architecture is 263.

ELECTIVES

The non-technical electives provided in the fifth year are intended to enable the student to broaden his educational experiences in other fields not necessarily related to architecture. The course of study elected should be guided by the student's particular interest and abilities.

The elective program is taken with the consent of the faculty adviser, who has information on individual courses or areas of study.

Suggested electives are: Physical, Natural, and Social Sciences, English, Fine Arts, Music, Languages, Journalism, Photography, Business, and Law.

III. CURRICULUM IN LANDSCAPE ARCHITECTURE

Landscape Architecture is a social art directed to the creation of an environment for human use and enjoyment. It differs from architecture in that its designers work with outdoor rather than enclosed space. Their medium is nature, their structural materials, for the most part, plants and land forms. The most important function of the landscape architect is to plan for convenience, enjoyment, and health, and, throughout this planning, to preserve and create beauty.

It is, therefore, preeminently a field for young men and women who have a love of nature, a perception of human values as related to the out-of-doors and imagination to express this perception in practical design.

The sequence of courses is carefully planned to give the student what he needs most at each stage of his development. Through the study of landscape design, construction, architecture, and horticulture, he acquires the knowledge and skill required for his professional practice. At the same time he undertakes a program of general studies to make him aware of the scope of his work and to help him formulate an individual philosophy with regard to it. An opportunity is given, through collaborative problems with students in architecture and the fine arts, to establish the working relationships which are so important to successful achievement later on. Numerous field trips—some to nearby state parks or private gardens, others to places as far away as Cranbrook or Williamsburg—acquaint the student with the requirements of various habitats and the range of accomplishment in the profession.

The curriculum is accredited by the American Society of Landscape Architects. Upon the successful completion of this four-year course of study the degree of Bachelor of Landscape Architecture is awarded.

CURRICULUM IN LANDSCAPE ARCHITECTURE

FIRST YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture Introductory Architectural Design	(411)	5	Architecture Introductory Architectural Design	(412)	5	Architecture Introductory Architectural Design	(413)	5
Mathematics College Algebra	(421)	5	Mathematics Trigonometry	(422)	5	Geology General Geology	(401)	5
English Composition	(416)	3	English Composition	(417)	3	English Composition	(418)	3
Fine Arts Drawing	(418)	2	Fine Arts Drawing	(419)	2	Fine Arts Drawing	(420)	2
Military or Air Science		2	Military or Air Science		2	Military or Air Science		2
Physical Education	(401)	1	Physical Education	(402)	1	Physical Education	(403)	1
						Physical Education Hygiene	(400)	1
		18			18			19

SECOND YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Architecture Elementary Architectural Design	(511)	4	Architecture Elementary Architectural Design	(512)	4	Architecture Elementary Architectural Design	(513)	4
Civil Engineering Elementary Surveying	(412)	5	Landscape Architecture Landscape Construction	(588)	4	Landscape Architecture Landscape Construction	(589)	4
Landscape Architecture History of Landscape Architecture	(507)	3	Landscape Architecture History of Landscape Architecture	(508)	3	Fine Arts Design Materials	(574)	3
Fine Arts Color	(536)	3	Fine Arts Sculpture	(537)	3	Botany General Botany	(402)	5
Military or Air Science		2	Botany General Botany	(401)	5	Military or Air Science		2
Physical Education (Women)	(425)	1	Military or Air Science		2	Physical Education	(427)	1
		16 or 17	Physical Education (Women)	(426)	1			17 or 18
					20 or 21			
			Landscape Architecture Practical Experience	(620)	5			

THIRD YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Landscape Architecture Intermediate Landscape Design	(617)	5	Landscape Architecture Intermediate Landscape Design	(618)	5	Landscape Architecture Intermediate Landscape Design	(619)	5
Landscape Architecture Landscape Construction	(687)	4	Landscape Architecture Landscape Construction	(688)	4	Landscape Architecture Landscape Construction	(689)	4
Fine Arts Bases of Contemporary Art	(494)	3	Fine Arts Bases of Contemporary Art	(495)	3	Landscape Architecture Planting Design	(629)	5
Horticulture	550)	5	Horticulture	(551)	5	Fine Arts Bases of Contemporary Art	(496)	3
		17			17			17
			Landscape Architecture Practical Experience	(720)	5			

FOURTH YEAR

Autumn Quarter			Winter Quarter			Spring Quarter		
Landscape Architecture Advanced Landscape Design	(717)	8	Landscape Architecture Advanced Landscape Design	(718)	8	Landscape Architecture Advanced Landscape Design	(719)	8
Landscape Architecture Planting Design	(727)	5	Landscape Architecture Professional Practice	(759)	2	Architecture Urbanism	(703)	2
Elective		3	Landscape Architecture Planting Design	(728)	5	Elective		10
English	(519)	3	Architecture Community Patterns	(702)	2			
The Professional Report			Speech Principles of Effective Speaking	(501)	3			
		19			20			20

Total number of hours required for the degree Bachelor of Landscape Architecture is 231.

ELECTIVES

The non-technical electives in the fourth year enable the student to broaden his educational experience in other fields not necessarily related to landscape architecture. The course of study elected should be guided by the students' particular interest and abilities.

The elective program is taken with the consent of the faculty adviser, who has information on individual courses or areas of study.

Suggested electives are in the fields of: Physical, Natural, and Social Sciences, English, Fine Arts, Music, Languages, Journalism, Photography, Business, and Law.

IV. DESCRIPTION OF COURSES

ARCHITECTURE

Office, 106 Brown Hall

400. Elements of Architecture. One credit hour. Winter Quarter. Architecture, first year. One lecture each week.

A course of lectures on the nature of architecture to assist the new student in orienting himself to the course of study ahead in architecture.

HISTORICAL ANALYSIS OF ARCHITECTURAL FORMS

This series of lecture courses deals with the historical analysis of architectural forms, structurally and aesthetically, from antiquity to the present, with particular reference to social and economic influences. Each course is scheduled for two lectures per week, supplemented with required outside readings, papers, and sketches.

‡501. Historical Analysis. Two credit hours. Autumn Quarter. Architecture, second year. Mr. Borchers.

Architecture in antiquity through the periods of Greece and Rome.

‡502. Historical Analysis. Two credit hours. Winter Quarter. Architecture, second year. Mr. Borchers.

Architecture of the Medieval period.

‡503. Historical Analysis. Two credit hours. Spring Quarter. Architecture, second year. Mr. Borchers.

Architecture of the Renaissance including the Baroque.

‡601. Historical Analysis. Two credit hours. Autumn Quarter. Architecture, third year. Mr. Borchers.

Architecture of the 18th and 19th Centuries, with special emphasis on the Oriental influences.

‡602. Historical Analysis. Two credit hours. Winter Quarter. Architecture, third year. Mr. Borchers.

Architecture of the 20th Century.

603. Historical Analysis. Two credit hours. Spring Quarter. Architecture, third year. Prerequisite, Architecture 612 and 622. Mr. Zoelly.

An analysis of contemporary forms.

701. Historical Analysis. Two credit hours. Autumn Quarter. Architecture, fourth year. Prerequisite, Architecture 603, 613, and 623. Mr. Zoelly.

An analysis of contemporary, architectural building groups.

‡702. Historical Analysis. Two credit hours. Winter Quarter. Architecture and Landscape Architecture, fourth year. Mr. Tobey.

A review of the evolution of community patterns.

‡703. Historical Analysis. Two credit hours. Spring Quarter. Architecture and Landscape Architecture, fourth year. Mr. Sutton.

An introductory study of the theory and practice of city and regional planning.

Not open to students who have credit for Architecture 666.

‡704. Historical Analysis. Two credit hours. Autumn Quarter. Architecture, fifth year. Mr. Borchers.

The allied arts and their relation to architecture.

‡ Courses marked thus are a part of the offering to students not majoring in Architecture.

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III. CURRICULUM IN ARCHITECTURE

The School of Architecture is a professional school with a curriculum designed to educate young men and women for the professional practice of architecture. The five-year curriculum is based on a broad background of cultural courses balanced with an integrated program of professional subjects. The professional sequences are offered once each year commencing in the Autumn Quarter.

Since the academic training in architecture is only a part of the continuous, lifetime, educational process, the student is encouraged to develop, think, and learn as an individual so that in professional life he may continue the process in helping him to meet and solve the ever-changing social and architectural problems of the future.

Throughout the five years of academic training the student is challenged constantly to apply his acquired fundamental knowledge and skills to the solving of specific architectural problems. The major course of study is architectural design—the creation of a useful and artistic physical environment in buildings to satisfy human needs, involving the program of a building, analysis and library research and finally the execution of the solution embodying adequate structure, materials, color, and incorporation of necessary building services. Parallel to and integrated with architectural design are courses in the theory and application of architectural construction and materials, architectural building equipment, historical analysis of architectural forms and related courses in the fields of city planning and the fine arts.

During the summer months all students are urged to secure employment in the offices of practicing architects or in actual construction.

Upon the successful completion of the undergraduate program, for which the degree of Bachelor of Architecture is awarded, and after a reasonable period of apprenticeship training in the employ of a practicing architect, the graduate should be prepared adequately to take the professional examinations for registration to practice architecture.

The curriculum is fully accredited by the National Architectural Accrediting Board.

NEW CURRICULUM IN ARCHITECTURE EFFECTIVE 1959-1960

FIRST YEAR

Autumn			Winter			Spring		
Architecture Introductory Architectural Design	(411)	4	Architecture Introductory Architectural Design	(412)	4	Architecture Introductory Architectural Design	(413)	4
Mathematics Algebra	(421)	5	Mathematics Trigonometry	(422)	5	Mathematics Calculus for Engineers	(440)	5
English	(416)	3	English	(417)	3	English	(418)	3
Physics	(411)	5	*Physics or Life Science Elective	(412)	5	*Physics or Life Science Elective	(413)	5
Military or Air Science		2	Military or Air Science		2	Military or Air Science		2
Physical Education	(401)	1	Physical Education	(402)	1	Physical Education		1
						Health Education	(400)	1
		20			20			21

* Student may elect either Physics 412 or 413; and must elect 5 credits in the Life Sciences area from the list approved in the College of Engineering.

SECOND YEAR

Autumn			Winter			Spring		
Architecture Elementary Architectural Design and Theory	(511)	6	Architecture Elementary Architectural Design and Theory	(512)	6	Architecture Elementary Architectural Design and Theory	(513)	6
Architecture Elementary Architectural Construction	(521)	3	Architecture Elementary Architectural Construction	(522)	3	Architecture Elementary Architectural Construction	(523)	3
Architecture History—Ancient	(504)	3	Architecture History—Medieval and Renaissance	(505)	3	Architecture History—Contemporary	(506)	3
Engineering Mechanics Applied Mechanics I	(511)	4	Engineering Mechanics Applied Mechanics II	(512)	4	Engineering Mechanics Applied Mechanics III	(513)	4
Military or Air Science		2	Military or Air Science		2	Military or Air Science		2
		18			18			18

THIRD YEAR

(Effective 1960-1961)

Autumn			Winter			Spring		
Architecture Intermediate Architectural Design	(611)	5	Architecture Intermediate Architectural Design	(612)	5	Architecture Intermediate Architectural Design	(613)	5
Architecture Intermediate Architectural Construction	(621)	4	Architecture Intermediate Architectural Construction	(622)	4	Architecture Intermediate Architectural Construction	(623)	4
Architecture Architectural Building Equipment	(661)	4	Architecture Architectural Building Equipment	(662)	4	Architecture Architectural Building Equipment	(663)	4
History The Western World	(421)	5	History The Western World	(422)	5	History The Western World	(423)	5
		18			18			18

Architecture 631—2 cr. Inspection Trip (may be taken either during the third or fourth years).

FOURTH YEAR

(Effective 1961-1962)

Autumn			Winter			Spring		
Architecture Advanced Architectural Design	(711)	5	Architecture Advanced Architectural Design	(712)	5	Architecture Advanced Architectural Design	(713)	5
Architecture Advanced Architectural Construction	(781)	5	Architecture Advanced Architectural Construction	(782)	5	Architecture Advanced Architectural Construction	(783)	5
Fine Arts		3	Fine Arts		3	Fine Arts		3
Sociology Fundamentals	(507)	5	Economics Fundamentals	(507)	5	Political Science Government	(507)	5
		18			18			18

FIFTH YEAR

(Effective 1962-1963)

Autumn			Winter			Spring		
Architecture Advanced Architectural Design and Thesis	(714)	8	Architecture Thesis	(715)	8	Architecture Thesis	(716)	8
Architecture Professional Practice	(754)	2	Architecture Professional Practice	(755)	2	Architecture Professional Practice	(756)	2
Architecture Allied Arts	(707)	3	Architecture Community Patterns	(708)	3	Architecture City Planning and Urbanism	(709)	3
**Elective		5	**Elective		5	**Elective		5
		18			18			18

** 5 credits must be taken in the Humanities area, either in Philosophy or Literature selected from the list approved in the College of Engineering; choice of the other 10 credits should be guided by the student's particular interests and ability.

The total number of credits required for the degree Bachelor of Architecture is 279

TRANSITIONAL CURRICULUM IN ARCHITECTURE

1. Students who have completed the third year of the old curriculum will continue to follow the old curriculum; except that they will add Architecture 631 (Inspection Trip) and 15 credits of electives are required in the fifth year of which 5 credits must be taken in the humanities area in either Philosophy or Literature selected from the list approved in the College of Engineering. The total number of credits required for graduation is 271.

2. Students who have completed the fourth year of the old curriculum will continue to follow the old curriculum, except that 15 credits of electives are required in the fifth year, of which 5 credits must be taken in the humanities area in either Philosophy or Literature selected from the list approved in the College of Engineering. The total number of credits required for graduation is 269.

FOURTH YEAR
(Withdrawn after 1960-1961)

Autumn			Winter			Spring		
Architecture Advanced Architectural Design	(711)	5	Architecture Advanced Architectural Design	(712)	5	Architecture Advanced Architectural Design	(713)	5
Architecture Advanced Architectural Construction	(781)	5	Architecture Advanced Architectural Construction	(782)	5	Architecture Advanced Architectural Construction	(783)	5
Architecture Building Groups	(701)	2	Architecture Community Patterns	(702)	2	Architecture Urbanism	(703)	2
Sociology Fundamentals	(507)	5	Economics Fundamentals	(507)	5	Political Science Government	(507)	5
		17			17			17

FIFTH YEAR
(Withdrawn after 1961-1962)

Autumn			Winter			Spring		
Architecture Advanced Architectural Design and Thesis	(714)	8	Architecture Thesis	(715)	10	Architecture Thesis	(716)	10
Architecture Professional Practice	(754)	2	Architecture Professional Practice	(755)	2	Architecture Professional Practice	(756)	2
Architecture Allied Arts	(704)	2	Electives		3-5	Electives		3-5
Electives		3-5						
		15-17			15-17			15-17

IV. CURRICULUM IN LANDSCAPE ARCHITECTURE

Landscape Architecture is a social art directed to the creation of an environment for human use and enjoyment. It differs from architecture in that its designers work with outdoor rather than enclosed space. Their medium is nature, their structural materials, for the most part, plants and land forms. The most important function of the landscape architect is to plan for convenience, enjoyment, and health, and, throughout this planning, to preserve and create beauty.

It is, therefore, preeminently a field for young men and women who have a love of nature, a perception of human values as related to the out-of-doors and imagination to express this perception in practical design.

The sequence of courses is carefully planned to give the student what he needs most at each stage of his development. Through the study of landscape design, construction, architecture, and horticulture, he acquires the knowledge and skill required for his professional practice. At the same time he undertakes a program of general studies to make him aware of the scope of his work and to help him formulate an individual philosophy with regard to it. An opportunity is given, through collaborative problems with students in architecture and the fine arts, to establish the working relationships which are so important to successful achievement later on. Numerous field trips—some to nearby state parks or private gardens, others to places as far away as Cranbrook or Williamsburg—acquaint the student with the requirements of various habitats and the range of accomplishment in the profession.

The curriculum is accredited by the American Society of Landscape Architects. Upon the successful completion of this five-year course of study the degree of Bachelor of Landscape Architecture is awarded.

BASIC EDUCATION REQUIREMENTS

As an integral part of the total requirements for graduation each student in landscape architecture is required to complete 79 hours in certain courses in "Basic Education," as follows:

Physical Science—5 credits
Physics, Chemistry or Geology

Life Science—10 credits
Botany—10 credits required

Social Science—30 credits
History 421, 422 and 423—5 credits each required
Sociology 507, Economics 507 and Political Science 507—5 credits each required

Humanities—19 credits
Student must elect 10 credits from list approved by the College of Engineering
Fine Arts 494, 497—3 credits each required

Electives—15 credits
Student's choice should be guided by his own particular interests and ability

NEW CURRICULUM IN LANDSCAPE ARCHITECTURE
(Effective 1959-1960)

FIRST YEAR

AUTUMN, WINTER, SPRING

The following courses or their equivalent are required of all students for nission to the Second Year or the Curriculum in Landscape Architecture.

English 416, 417, 418	9
Mathematics 421, 422	10
Botany 401, 402	10
Physical Science (Physics, Chemistry or Geology)	5
Humanities (from the list approved by the College of Engineering)	10
Physical Education	3
Health Education	1
Military or Air Science	6
	54

SECOND YEAR
(Effective 1960-1961)

Autumn		Winter		Spring	
:hitecture	411) 4	Architecture	(412) 4	Architecture	(413) 4
ntroductory Architectural Design		Introductory Architectural Design		Introductory Architectural Design	
il Engineering	(412) 5	Landscape Architecture	(588) 5	Landscape Architecture	(589) 5
Clementary Surveying		Landscape Construction		Landscape Construction	
:tory	(421) 5	History	(422) 5	History	(423) 5
ndscape Architecture	(507) 3	Landscape Architecture	(508) 3	Speech	(501) 3
Iistory of Landscape Architecture		History of Landscape Architecture		Principles of Effective Speaking	
itary or Air Science	2	Military or Air Science	2	Military or Air Science	2
sical Education (Women)	1	Physical Education (Women)	1	Physical Education (Women)	1
	18 or 19		18 or 19		18 or 19

THIRD YEAR
(Effective 1960-1961)

Autnmn		Winter		Spring	
hitecture	(511) 6	Architecture	(512) 6	Architecture	(513) 6
Clementary Architectural Theory and Design		Elementary Architectural Theory and Design		Elementary Architectural Theory and Design	
rticulture	(550) 5	Horticulture	(551) 5	Horticulture	(552) 5
rnamental Plants		Ornamental Plants		Ornamental Plants	
iology	(507) 5	Economics	(507) 5	Political Science	(507) 5
undamentals		Fundamentals		Government	
e Arts	(494) 3	Fine Arts	(497) 3	English	(519) 3
ntroduction to Art		Historic Styles in Art		The Professional Report	
	19		19		19

Landscape Architecture (620) 5
Practical Experience

FOURTH YEAR
(Effective 1961-1962)

Autumn		Winter		Spring	
dscape Architecture	(617) 5	Landscape Architecture	(618) 5	Landscape Architecture	(619) 5
ntermediate Landscape Design		Intermediate Landscape Design		Intermediate Landscape Design	
dscape Architecture	(727) 5	Landscape Architecture	(728) 5	Landscape Architecture	(729) 5
lanting Design		Planting Design		Planting Design	
dscape Architecture	(687) 5	Landscape Architecture	(688) 5	Landscape Architecture	(689) 5
andscape Construction		Landscape Construction		Landscape Construction	
e Arts	3	Fine Arts	3	Fine Arts	3
	18		18		18

Landscape Architecture (720) 5
Practical Experience

FIFTH YEAR
(Effective 1962-1963)

Autumn		Winter		Spring	
Landscape Architecture	(717) 10	Landscape Architecture	(718) 10	Landscape Architecture	(719) 10
Advanced Landscape Design		Advanced Landscape Design		Advanced Landscape Design	
Landscape Architecture	(759) 3	Architecture	(708) 3	Architecture	(709) 3
Professional Practice		Community Patterns		Urbanism and City Planning	
Elective	5	Elective	5	Elective	5
	18		18		18

The total number of hours for the degree of Bachelor of Landscape Architecture is 286.

ELECTIVES

The non-technical electives in the fifth year enable the student to broaden his educational experiences in other fields not necessarily related to landscape architecture. The course of study elected should be guided by the student's particular interest and abilities.

The elective program is taken with the consent of the faculty adviser, who has information on individual courses or areas of study.

TRANSITIONAL CURRICULUM IN LANDSCAPE ARCHITECTURE

Students who have completed the first year of the old curriculum will follow the Transitional Curriculum beginning with the second year. The total number of credits required for graduation will be 234.

Students who have completed the second year of the old curriculum will follow the Transitional Curriculum beginning with the third year. The total number of credits required for graduation will be 232.

THIRD YEAR
(Withdrawn after 1960-1961)

Autumn		Winter		Spring	
Landscape Architecture	(617) 5	Landscape Architecture	(618) 5	Landscape Architecture	(619) 5
Intermediate Landscape Design		Intermediate Landscape Design		Intermediate Landscape Design	
Landscape Architecture	(687) 5	Landscape Architecture	(688) 5	Landscape Architecture	(689) 5
Landscape Construction		Landscape Construction		Landscape Construction	
English	(519) 3	Fine Arts	(497) 3	Fine Arts	(497) 3
The Professional Report		Introduction to Modern Arts		~~Introduction to Modern Arts~~ Historic Styles in Art	
Horticulture	(550) 5	Horticulture	(551) 5	Landscape Architecture	(729) 5
				Planting Design	
	18		18		18

Landscape Architecture (720) 5
Practical Experience

FOURTH YEAR
(Withdrawn after 1961-1962)

Autumn		Winter		Spring	
Landscape Architecture	(717) 8	Landscape Architecture	(718) 8	Landscape Architecture	(719) 8
Advanced Landscape Design		Advanced Landscape Design		Advanced Landscape Design	
Landscape Architecture	(727) 5	Landscape Architecture	(728) 5	Architecture	(703) 2
Planting Design		Planting Design		Urbanism	
Landscape Architecture	(759) 3	Architecture	(702) 2	Elective	10
Professional Practice		Community Patterns			
Elective	3	Speech	(501) 3		
		Principles of Effective Speaking			
	19		18		20

V. GRADUATE CURRICULUM IN CITY AND REGIONAL PLANNING

The Master of City Planning degree is awarded to students who complete a two-year graduate curriculum in city and regional planning. This is the recognized professional degree in planning for students with an undergraduate major in one of the design fields, social sciences or humanities.

The Profession of City Planning

City planning is a young profession that has grown to meet the need for applying systematic forethought to changes in the physical environment of cities and regions.

The planner's contribution is to establish those relationships among land-uses—housing, industry, farms, shops, parks, streets, other public services—that will best reach long-term objectives of beauty, health, economy and social satisfaction. His comprehensive approach requires that the planner have an understanding of the work of specialists who design, study or manage parts of the physical environment. The planner requires an understanding of the social and economic needs upon which city planning designs must be based and he requires sufficient knowledge of public finance and politics to carry plans into effect.

The wide adoption of city planning as an essential public activity has, for some years, been creating new planning positions much faster than qualified planners can be supplied to fill them. Positions are opening at all levels of responsibility on the staffs of public planning agencies—city, county, metropolitan, regional, state and federal—and on the staffs of private planning firms. Planners are also increasingly demanded for other public and private work that requires professional planning services, particularly in the field of urban renewal.

Requirements for the Degree

The Master of City Planning degree requires completion of 90 credit hours of graduate study including the preparation of a thesis.

An additional requirement, for which academic credit is not given, is one Quarter of supervised experience on the staff of an approved planning organization.

The Curriculum

Subjects that constitute the curriculum in city and regional planning are divided into three groups.

Group 1 includes courses that are required of all students. This group constitutes about one-half of the work and includes courses in planning history, theory and principles, methods, legislation and administration, laboratory study of planning problems, and thesis research.

Group 2, constituting about one-third of the program, is selected from a required list of planning-related courses taught in various departments throughout the University. The selection is designed to fit the individual student's need and background. The list includes municipal government, government finance, economic base analysis, urban land economics, housing, community analysis, sociological research, population, urban geography, civic design, site planning, sanitary engineering, and transportation and traffic engineering.

Group 3 comprises elective courses. These may be chosen by the student in any combination designed to broaden his view, help him to cope with the

human problems and value judgments involved in planning, or increase his professional knowledge and skill. A wide range of pertinent courses is available in the humanities, the social sciences, and technical studies.

Special Facilities

Many organizations of the University are concerned with aspects of planning. These include particularly the Office of Community Development, Natural Resources Institute and the Institute of Geodesy, Photogrammetry and Cartography.

Official agencies are located in Columbus conducting programs of city planning, urban renewal, metropolitan and state planning. Similar opportunities for study exist throughout Ohio where the total population in metropolitan areas is now over 7 million. Close associations are maintained with professional, official, citizen and business groups in Ohio which are concerned with planning.

Admission

Admission requirements include:

1. A baccalaureate or professional degree awarded by a college or university of approved standing.

2. A high record of academic proficiency.

3. As prerequisites: elementary courses in economics, political science, sociology, speech, statistics and design. Students may be admitted who will complete prerequisite courses together with the graduate program.

Address inquiries to the Head of the City and Regional Planning Program, School of Architecture and Landscape Architecture. Undergraduates who look toward graduate planning study should write for advice in arranging the remainder of their undergraduate studies.

GENERAL FORM OF A CURRICULUM IN CITY AND REGIONAL PLANNING

FIRST YEAR

Autumn			Winter			Spring		
Planning Seminar	(721)	3	Planning Seminar	(722)	3	Planning Seminar	(723)	3
Group 2 Courses		12	Planning Laboratory	(731)	5	Planning Laboratory	(732)	5
			Group 2 Courses		8	Group 2 Courses		8
		15			16			16

Summer

Supervised Experience in Planning

SECOND YEAR

Autumn			Winter			Spring		
Planning Law	(899)	3	Planning Administration	(899)	3	Planning Thesis	(950)	
Planning Laboratory	(831)	5	Planning Laboratory	(832)	5			
Electives		6	Electives		6			
		14			14			15

1963 - 64

Recommended sequence: 401-402
Sociology 401, 402, 505, 507, 562*, 604*, 614*, 623*, 627*, 629*, 677*
Recommended sequence: 401-402
Anthropology 501, 503, 607*, 612*, 613*, 633*, 634*, 635*, 639*, 659*, 660*
Recommended sequence: 501-503
Journalism 608*

Humanities

Group 1—Literature and Language
Classical Language 520, 521, 523, 524
Comparative Literature 401, 402, 403
English 510, 511, 520, 521, 529, 540, 550, 555, 563, 564, 609*, 615*, 627*, 635*, 636*, 641*, 642*, 653*, 654*, 656*, 670*, 671*, 674*, 676*, 677*, 678*
Foreign Literature
In translation: French 570*, German 590*, Russian 614*
In foreign language: French 517*, German 575*, 576*, 577*; Italian 503*, 504*, 505*; Russian 575*, 576*, 577*; Spanish 517*

Group 2—Music, Fine Arts, Philosophy, Speech
Music 404, 451, 452, 505, 551, 552, 553
Fine Arts 494, 497, 501, 502, 503
Philosophy 400, 401, 402, 405, 551, 552, 601*, 602*, 603*
Speech 430 (Introduction to Theater)

Courses marked with an asterisk (*) are approved advanced level courses.

III. CURRICULUM IN ARCHITECTURE

The School of Architecture is a professional school with a curriculum designed to educate young men and women for the professional practice of architecture. The five-year curriculum is based on a broad background of cultural courses balanced with an integrated program of professional subjects. The professional sequences are offered once each year commencing in the Autumn Quarter.

Since the academic training in architecture is only a part of the continuous, lifetime, educational process, the student is encouraged to develop, think, and learn as an individual so that in professional life he may continue the process in helping him to meet and solve the ever-changing social and architectural problems of the future.

Throughout the five years of academic training the student is challenged constantly to apply his acquired fundamental knowledge and skills to the solving of specific architectural problems. The major course of study is architectural design—the creation of a useful and artistic physical environment in buildings to satisfy human needs, involving the program of a building, analysis and library research and finally the execution of the solution embodying adequate structure, materials, color, and incorporation of necessary building services. Parallel to and integrated with architectural design are courses in the theory and application of architectural construction and materials, architectural building equipment, historical analysis of architectural forms and related courses in the fields of city planning and the fine arts.

During the summer months all students are urged to secure employment in the offices of practicing architects or in actual construction.

Upon the successful completion of the undergraduate program, for which the degree of Bachelor of Architecture is awarded, and after a reasonable period of apprenticeship training in the employ of a practicing architect, the graduate should be prepared adequately to take the professional examinations for registration to practice architecture.

The curriculum is fully accredited by the National Architectural Accrediting Board.

CURRICULUM IN ARCHITECTURE

FIRST YEAR

Autumn			Winter			Spring		
Architecture Introductory Architectural Design	(411)	4	Architecture Introductory Architectural Design	(412)	4	Architecture Introductory Architectural Design	(413)	4
Mathematics Algebra and Trigonometry	(439)	5	Mathematics Calculus and Analytic Geometry	(440)	5	Mathematics Calculus and Analytic Geometry	(441)	5
English	(416)	3	English	(417)	3	English	(418)	3
Physics	(411)	5	*Physics or Life Science Elective	(412)	5	*Physics or Life Science Elective	(413)	5
Military or Air Science		2	Military or Air Science		2	Military or Air Science		2
Physical Education	(401)	1	Physical Education	(402)	1	Physical Education		1
						Health Education	(400)	1
		20			20			21

* Student may elect either Physics 412 or 413; and must elect 5 credits in the Life Sciences area from the list approved in the College of Engineering.

SECOND YEAR
(Effective 1963-1964)

Autumn		Winter		Spring	
Architecture Elementary Architectural Design and Theory	(511) 5	Architecture Elementary Architectural Design and Theory	(512) 5	Architecture Elementary Architectural Design and Theory	(513) 5
Engineering Mechanics Applied Mechanics I	(511) 4	Engineering Mechanics Applied Mechanics II	(512) 4	Engineering Mechanics Applied Mechanics III	(513) 4
History The Western World	(421) 5	History The Western World	(422) 5	History The Western World	(423) 5
Fine Arts	(661) 3	Fine Arts	(662) 3	Fine Arts	(663) 3
Military or Air Science	2	Military or Air Science	2	Military or Air Science	2
	19		19		19

THIRD YEAR
(Effective 1964-1965)

Autumn		Winter		Spring	
Architecture Intermediate Architectural Design	(611) 5	Architecture Intermediate Architectural Design	(612) 5	Architecture Intermediate Architectural Design	(613) 5
Architecture Elementary Architectural Construction	(521) 3	Architecture Elementary Architectural Construction	(522) 3	Architecture Elementary Architectural Construction	(523) 3
Sociology Fundamentals	(507) 5	Economics Fundamentals	(507) 5	Political Science Government	(507) 5
**Elective	5	**Elective	5	**Elective	5
	18		18		18
				*Architecture Inspection Trip	(631) 2

FOURTH YEAR
(Effective 1965-1966)

Autumn		Winter		Spring	
Architecture Advanced Architectural Design	(711) 6	Architecture Advanced Architectural Design	(712) 6	Architecture Advanced Architectural Design	(713) 6
Architecture Intermediate Architectural Construction	(621) 4	Architecture Intermediate Architectural Construction	(622) 4	Architecture Intermediate Architectural Construction	(623) 4
Architecture Architectural Building Equipment	(661) 4	Architecture Architectural Building Equipment	(662) 4	Architecture Architectural Building Equipment	(663) 4
Architecture History-Ancient	(604) 3	Architecture History-Medieval and Renaissance	(605) 3	Architecture History—Contemporary	(606) 3
	17		17		17
				*Architecture Inspection Trip	(631) 2

FIFTH YEAR
(Effective 1964-1965)

Autumn		Winter		Spring	
Architecture Advanced Architectural Design and Thesis	(714) 8	Architecture Thesis	(715) 8	Architecture Thesis	(716) 8
Architecture Professional Practice	(754) 2	Architecture Professional Practice	(755) 2	Architecture Professional Practice	(756) 2
Architecture Advanced Architectural Construction	(781) 5	Architecture Advanced Architectural Construction	(782) 5	Architecture Advanced Architectural Construction	(783) 5
Architecture Allied Arts	(707) 3	Architecture Community Patterns	(708) 3	Architecture City Planning and Urbanism	(709) 3
	18		18		18

* Architecture 631 may be taken either during the third or fourth years. The trip is taken between Winter and Spring Quarters. Credit is arranged by adding the course to the student's Spring Quarter schedule.

** 5 credits must be taken in the Humanities area, either in Philosophy or Literature selected from the list approved in the College of Engineering; choice of the other 10 credits should be guided by the student's particular interests and ability.

The total number of credits required for the degree Bachelor of Architecture is 279.

TRANSITIONAL CURRICULUM IN ARCHITECTURE

To bring students into phase with the revised curriculum course offering in the Third, Fourth and Fifth years for 1963-1964 and 1964-1965 are as follows:

THIRD YEAR (1963-1964)
(Withdrawn after 1963-1964)

Autumn		Winter		Spring	
Architecture	(611) 5	Architecture	(612) 5	Architecture	(613) 5
Architecture	(621) 4	Architecture	(622) 4	Architecture	(623) 4
Architecture	(661) 4	Architecture	(662) 4	Architecture	(663) 4
History	(421) 5	History	(422) 5	History	(423) 5
	18		18		18

FOURTH YEAR (1963-1964, 1964-1965)
(Withdrawn after 1964-1965)

Autumn		Winter		Spring	
Architecture	(711) 5	Architecture	(712) 5	Architecture	(713) 5
Fine Arts	(661) 3	Fine Arts	(662) 3	Fine Arts	(663) 3
Sociology	(507) 5	Economics	(507) 5	Political Science	(507) 5
**Elective	5	**Elective	5	**Elective	5
	18		18		18

FIFTH YEAR (1963-1964)
(Withdrawn after 1963-1964)

Autumn		Winter		Spring	
Architecture	(714) 8	Architecture	(715) 8	Architecture	(716) 8
Architecture	(754) 2	Architecture	(755) 2	Architecture	(756) 2
Architecture	(707) 3	Architecture	(708) 3	Architecture	(709) 3
**Elective	5	**Elective	5	**Elective	5
	18		18		18

IV. CURRICULUM IN LANDSCAPE ARCHITECTURE

Landscape Architecture is a social art directed to the creation of an environment for human use and enjoyment. It differs from architecture in that its designers work with outdoor rather than enclosed space. Their medium is nature, their structural materials, for the most part, plants and land forms. The most important function of the landscape architect is to plan for convenience, enjoyment, and health, and, throughout this planning, to preserve and create beauty.

It is, therefore, preeminently a field for young men and women who have a love of nature, a perception of human values as related to the out-of-doors and imagination to express this perception in practical design.

The sequence of courses is carefully planned to give the student what he needs most at each stage of his development. Through the study of landscape design, construction, architecture, and horticulture, he acquires the knowledge and skill required for his professional practice. At the same time he undertakes a program of general studies to make him aware of the scope of his work and to help him formulate an individual philosophy with regard to it. An opportunity is given, through collaborative problems with students in architecture and the fine arts, to establish the working relationships which are so important to successful achievement later on. Numerous field trips—some to nearby state parks or private gardens, others to places as far away as Cranbrook or Williamsburg—acquaint the student with the requirements of various habitats and the range of accomplishment in the profession.

The curriculum is accredited by the American Society of Landscape Architects. Upon the successful completion of this five-year course of study the degree of Bachelor of Landscape Architecture is awarded.

BASIC EDUCATION REQUIREMENTS

As an integral part of the total requirements for graduation each student in landscape architecture is required to complete 79 hours in certain courses in "Basic Education," as follows:

Physical Science—5 credits
Physics, Chemistry or Geology

Life Science—10 credits
Botany—10 credits required

Social Science—30 credits
History 421, 422 and 423—5 credits each required
Sociology 507, Economics 507 and Political Science 507—5 credits each required

Humanities—19 credits
Student must elect 10 credits from list approved by the College of Engineering
Fine Arts 494, 497—3 credits each required

Electives—15 credits
Student's choice should be guided by his own particular interests and ability

CURRICULUM IN LANDSCAPE ARCHITECTURE

FIRST YEAR

AUTUMN, WINTER, SPRING

The following courses or their equivalent are required of all students for admission to the Second Year or the Curriculum in Landscape Architecture.

English 416, 417, 418	9
Mathematics 416, 417	10
Botany 401, 402	10
Physical Science (Physics, Chemistry or Geology)	5
Fine Arts 421, 423	10
Physical Education	3
Health Education	1
Military or Air Science	6
	54

SECOND YEAR

Autumn		Winter		Spring	
Architecture (411) Introductory Architectural Design	4	Architecture (412) Introductory Architectural Design	4	Architecture (413) Introductory Architectural Design	4
Humanities	5	Humanities	5	Civil Engineering (412) Elementary Surveying	5
History (421)	5	History (422)	5	History (423)	5
Landscape Architecture (507) History of Landscape Architecture	3	Landscape Architecture (508) History of Landscape Architecture	3	Elective	3
Military or Air Science	2	Military or Air Science	2	Military or Air Science	2
Physical Education (Women)	1	Physical Education (Women)	1	Physical Education (Women)	1
	18 or 19		18 or 19		18 or 19

THIRD YEAR

Autumn		Winter		Spring	
Architecture (511) Elementary Architectural Theory and Design	5	Architecture (512) Elementary Architectural Theory and Design	5	Architecture (513) Elementary Architectural Theory and Design	5
Horticulture (550) Ornamental Plants	5	Horticulture (551) Ornamental Plants	5	Horticulture (552) Ornamental Plants	5
Landscape Architecture (587) Landscape Construction	5	Landscape Architecture (588) Landscape Construction	5	Landscape Architecture (589) Landscape Construction	5
Fine Arts (494) Introduction to Art	3	Fine Arts (497) Historic Styles in Art	3	English (519) The Professional Report	3
	18		18		18

Summer

*Land. Architecture (520) Practical Experience 5

FOURTH YEAR

Autumn		Winter		Spring	
Landscape Architecture (617) Intermediate Landscape Design	5	Landscape Architecture (618) Intermediate Landscape Design	5	Landscape Architecture (619) Intermediate Landscape Design	5
Landscape Architecture (727) Planting Design	5	Landscape Architecture (728) Planting Design	5	Landscape Architecture (729) Planting Design	5
Sociology (507) Fundamentals	5	Landscape Architecture (688) Landscape Construction	5	Landscape Architecture (689) Landscape Construction	5
Speech (501) Principles of Effective Speaking	3	Elective	3	Elective	3
	18		18		18

* See note below.

Summer

**Land. Architecture (720) Practical Experience 5

* Landscape Arch 520 should be taken during the Summer between the third and fourth years. Credit is arranged by adding the course to the student's Autumn Quarter schedule, fourth year.

** Landscape Arch 720 should be taken during the Summer between the fourth and fifth years. Credit is arranged by adding the course to the student's Autumn Quarter schedule, fifth year.

FIFTH YEAR

Autumn		Winter		Spring	
Landscape Architecture (717) Advanced Landscape Design	10	Landscape Architecture (718) Advanced Landscape Design	10	Landscape Architecture (719) Advanced Landscape Design	10
Landscape Architecture (759) Professional Practice	3	Architecture (708) Community Patterns	3	Architecture (709) Urbanism and City Planning	3
Economics (507) Fundamentals	5	Political Science (507) Government	5	Elective	5
	18		18		18

The total number of hours for the degree of Bachelor of Landscape Architecture is 283.

ELECTIVES

The non-technical electives in the fifth year enable the student to broaden his educational experiences in other fields not necessarily related to landscape architecture. The course of study elected should be guided by the student's particular interest and abilities.

The elective program is taken with the consent of the faculty adviser, who has information on individual courses or areas of study.

V. GRADUATE CURRICULUM IN CITY AND REGIONAL PLANNING

The Master of City Planning degree is awarded to students who complete a two-year graduate curriculum in city and regional planning. This is the recognized professional degree in planning for students with an undergraduate major in one of the design fields, social sciences or humanities.

The Profession of City Planning

City planning is a young profession that has grown to meet the need for applying systematic forethought to changes in the physical environment of cities and regions.

The planner's contribution is to establish those relationships among land-uses—housing, industry, farms, shops, parks, streets, other public services—that will best reach long-term objectives of beauty, health, economy and social satisfaction. His comprehensive approach requires that the planner have an understanding of the work of specialists who design, study or manage parts of the physical environment. The planner requires an understanding of the social and economic needs upon which city planning designs must be based and he requires sufficient knowledge of public finance and politics to carry plans into effect.

The wide adoption of city planning as an essential public activity has, for some years, been creating new planning positions much faster than qualified planners can be supplied to fill them. Positions are opening at all levels of responsibility on the staffs of public planning agencies—city, county, metropolitan, regional, state and federal—and on the staffs of private planning firms. Planners are also increasingly demanded for other public and private work that requires professional planning services, particularly in the field of urban renewal.

Requirements for the Degree

The Master of City Planning degree requires completion of 90 credit hours of graduate study including the preparation of a thesis.

An additional requirement, for which academic credit is not given, is one Quarter of supervised experience on the staff of an approved planning organisation.

The Curriculum

Subjects that constitute the curriculum in city and regional planning are divided into three groups.

Group 1 includes courses that are required of all students. This group constitutes about one-half of the work and includes courses in planning history, theory and principles, methods, legislation and administration, laboratory study of planning problems, and thesis research.

Group 2, constituting about one-third of the program, is selected from a required list of planning-related courses taught in various departments throughout the University. The selection is designed to fit the individual student's need and background. The list includes municipal government, government finance, economic base analysis, urban land economics, housing, community analysis, sociological research, population, urban geography, civic design, site planning, sanitary engineering, and transportation and traffic engineering.

Group 3 comprises elective courses. These may be chosen by the student in any combination designed to broaden his view, help him to cope with the

human problems and value judgments involved in planning, or increase his professional knowledge and skill. A wide range of pertinent courses is available in the humanities, the social sciences, and technical studies.

Special Facilities

Many organizations of the University are concerned with aspects of planning. These include particularly the Office of Community Development, Natural Resources Institute and the Institute of Geodesy, Photogrammetry and Cartography.

Official agencies are located in Columbus conducting programs of city planning, urban renewal, metropolitan and state planning. Similar opportunities for study exist throughout Ohio where the total population in metropolitan areas is now over 7 million. Close associations are maintained with professional, official, citizen and business groups in Ohio which are concerned with planning.

Admission

Admission requirements include:

1. A baccalaureate or professional degree awarded by a college or university of approved standing.
2. A high record of academic proficiency.
3. As prerequisites: elementary courses in economics, political science, sociology, speech, statistics and design. Students may be admitted who will complete prerequisite courses together with the graduate program.

Address inquiries to the Head of the City and Regional Planning Program, School of Architecture and Landscape Architecture. Undergraduates who look toward graduate planning study should write for advice in arranging the remainder of their undergraduate studies.

GENERAL FORM OF A CURRICULUM IN CITY AND REGIONAL PLANNING

FIRST YEAR

Autumn			Winter			Spring		
Planning Seminar	(722)	3	Planning Seminar	(722)	3	Planning Seminar	(722)	3
Group 2 Courses		12	Planning Laboratory	(721)	5	Planning Laboratory	(722)	5
			Group 2 Courses		8	Group 2 Courses		8
		15			16			16

Summer

Supervised Experience in Planning

SECOND YEAR

Autumn			Winter			Spring		
Planning Law	(899)	3	Planning Administration	(899)	3	Planning Thesis	(850)	
Planning Laboratory	(821)	5	Planning Laboratory	(822)	5			
Electives		6	Electives		6			
		14			14			16

VI. THE UNIVERSITY AND ITS SERVICES

LOCATION

The Ohio State University is situated two and one-half miles north of the center of the city of Columbus, the capital of Ohio, and a city of 507,843 persons. The University campus includes two sections: the East campus, which is situated west of High Street between Eleventh and Lane Avenues; and the West campus, located west of the Olentangy River and east of North Star Road. Public transportation between the campus and the downtown area is available both on High Street and Neil Avenue. Port Columbus (municipal airport) is readily accessible from the campus by automobile or public transportation.

INTERESTING FACTS

The University is supported by appropriations from the State government, student fees, research grants, gifts of alumni, industry, and friends, some Federal assistance, and a small endowment. Land used by the University totals 2,780 acres, with 679 acres on the campuses, 589 acres in the University airport, 295 acres in the golf courses, and 1,217 acres in experimental farms.

The total value of the land, buildings, and equipment of the University is currently $160,778,068.

The University operates a radio and a television station (WOSU), dedicated to the education of the citizens of Ohio, as well as a student daily newspaper (The Lantern), which serves the University community.

THE PRESENT ORGANIZATION OF THE UNIVERSITY

The present organization of the University represents both administrative convenience and educational design. The departments of instruction of the University are grouped into divisions termed "Colleges." The Ohio State University now comprises ten Colleges and a Graduate School, each under the administration of a Dean and College Faculty, as follows: Graduate School, College of Agriculture and Home Economics (including the School of Home Economics), College of Arts and Sciences (including the School of Journalism and the School of Optometry), College of Commerce and Administration (including the School of Social Work), College of Dentistry, College of Education (including the School of Art and the School of Music), College of Engineering (including Pre-Engineering and Professional Divisions, the School of Architecture and Landscape Architecture, the School of Aviation, and the School of Mineral Industries), College of Law, College of Medicine (including the School of Nursing), College of Pharmacy, College of Veterinary Medicine.

Each of the various schools and colleges has it own bulletin which may be obtained by writing to the Director of Admissions, The Ohio State University, Columbus 10, Ohio.

Graduate study may be undertaken in most of the departments of the University. Such work is under the direction of the Graduate Council and the chairman of the department concerned. Students desiring to do graduate work should register in the Graduate School.

Opportunity for evening study is available in the regular undergraduate and graduate curricula as outlined in the Part Time Education Bulletin. A wide variety of courses are scheduled after four o'clock for the convenience of teachers, students, and qualified adults, who are unable to attend classes earlier in the day. For additional information, consult Room 109, Administration Building, 190 N. Oval Dr.

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School of Architecture

OFFICERS AND FACULTY

FACULTY

Elliot L. Whitaker ..... Director of the School and Professor

ARCHITECTURE

Elliot L. Whitaker ..... Chairman and Professor
Herbert Baumer ..... Professor Emeritus
Perry E. Borchers ..... Professor
Wayland W. Bowser ..... Associate Professor
Henry S. Brinkers ..... Associate Professor
George M. Clark ..... Professor
Gilbert Coddington ..... Associate Professor
Wayne E. Dipner ..... Assistant Professor
Michael Passe ..... Adjunct Assistant Professor
Harry E. Phillian ..... Professor
Wilbert C. Ronan ..... Professor Emeritus
George L. Tilley ..... Professor
Frank E. Wilson ..... Professor

CITY AND REGIONAL PLANNING

Laurence C. Gerckens ..... Chairman and Associate Professor
Larz T. Anderson ..... Assistant Professor
James R. Crozier ..... Adjunct Assistant Professor
Frank L. Elmer ..... Instructor
W. Raymond Mills ..... Associate Professor
Israel Stollman ..... Visiting Professor

LANDSCAPE ARCHITECTURE

George B. Tobey ..... Chairman and Associate Professor
Edward H. Fife ..... Instructor
William F. Rock, Jr. ..... Instructor

Consult faculty listing of the College of Engineering for more complete faculty information.

Degrees offered: Bachelor of Science in Architecture, Bachelor of Architecture, Bachelor of Landscape Architecture, Master of City Planning, and Master of Architecture.

OBJECTIVES AND ORGANIZATION

OBJECTIVES

The three curricula which deal with the functional and aesthetic design of man's physical surroundings are administered within the School of Architecture. The objective of the curricula for these related design disciplines is to prepare graduates for professional practice.

The undergraduate curricula in architecture and landscape architecture seek to achieve the twofold purpose of providing a general and a technical education. Both programs of undergraduate study stem from a common curriculum in the early years which branches out into specialized areas of study.

These undergraduate programs, together with the graduate program in architecture and in city and regional planning, provide an interdisciplinary atmosphere for studies in the design of man's environment.

HISTORY

Architecture has been taught continuously at The Ohio State University since 1899, landscape architecture since 1915, and city and regional planning since 1958.

ORGANIZATION

The School of Architecture is organized in three divisions—Architecture, Landscape Architecture, and City and Regional Planning.

LOCATION AND FACILITIES

The School's location in Columbus, Ohio's rapidly growing capital city, contributes to its teaching programs in all areas of environmental design. Field trips to a large number of other major metropolitan areas are also convenient. Recent tours have included Chicago, Detroit, St. Louis, Philadelphia, Washington, and New York.

Brown Hall Library serves the School with a large specialized collection of books, periodicals, slides, and reference material supplementing the resources of the entire University Library.

ADMISSION

RECOMMENDED PREPARATION

In preparation for the curriculum in architecture or landscape architecture a student should complete the following courses in high school:

1. Four units of mathematics including advanced algebra, geometry, and trigonometry;
2. Three units of science including physics;
3. Four units of English composition and literature;
4. Two units of social science including American history and government;
5. Two units of one foreign language.

Before admission, all applicants should:

1. Take the Architectural School Aptitude Test. For further information,

write to the Educational Testing Service, Princeton, New Jersey 08540.

2. Confer with practicing architects, landscape architects, and other professionals in their home communities.

ADMISSION TO THE SCHOOL OF ARCHITECTURE FROM UNIVERSITY COLLEGE

A student who chooses a curriculum in architecture or landscape architecture is expected to follow that curriculum while enrolled in University College. A student is eligible for transfer to the School of Architecture after completing one academic year (approximately 48 quarter hours of credit) including Mathematics 151 and Physics 111. Students are admitted to the School of Architecture in the Autumn Quarter only.

ADMISSION TO THE SCHOOL OF ARCHITECTURE FROM OTHER INSTITUTIONS

A student who has completed courses in another college or university may be admitted to the School of Architecture at the level for which he is qualified by transfer of credits for preceding courses. A student who anticipates application for such transfer should follow a program of study which satisfies, in so far as possible, the general requirements of The Ohio State University and the special requirements of the School of Architecture.

ACADEMIC REQUIREMENTS

Minimum requirements for undergraduates in the School are the same as those for the College of Engineering.

To qualify for graduation a student must complete satisfactorily all of the curriculum requirements as outlined.

STUDENT ADVISING

Prospective students and parents are welcome at all times to visit the School; new students may wish to discuss career opportunities before admission or during the orientation program. All students regularly enrolled in the School are assigned a faculty adviser for consultation on personal, program, or placement matters.

HONORS AND AWARDS

A number of scholarships, prizes, and awards are available annually to the students in architecture, landscape architecture, and city and regional planning.

The American Institute of Architects Medal. Awarded annually by The American Institute of Architects to the graduating senior who has maintained the best scholastic average throughout the entire professional course. The alternate for the prize is awarded a citation.

Joseph N. Bradford Memorial Fund. Established by gifts through the Development Fund from graduates of the School of Architecture, the income of which is used for a scholarship to be given annually to a talented and worthy student.

Howard Dwight Smith Scholarship. Established by gifts through the Development Fund from friends of Howard Dwight Smith. The income is used for scholarships to students in architecture.

Charles R. Sutton Memorial Fund. Established by gifts through the Development Fund in memory of Charles R. Sutton. The income is used for scholarships to students in landscape architecture.

Faculty Prize. Awarded annually to outstanding students in architecture, landscape architecture, and city and regional planning.

German Village Society Scholarship. Awarded annually to an outstanding student in the School of Architecture.

Alpha Rho Chi Medal. Awarded annually to the graduating senior in architecture who has shown an ability for leadership and service for his school, and gives promise of professional merit.

Medal of the Architects Society of Ohio. Awarded annually to an outstanding fourth-year student in architecture.

Faculty Prize. Awarded anually to outstanding members of the undergraduate classes in both architecture and landscape architecture.

Columbus Chapter, The American Institute of Architects, Award. Awarded annually to a member of the Student Chapter of The American Institute of Architects on the basis of outstanding service to his profession.

Certificate of Merit of the American Society of Landscape Architects. Awarded an-

nually to a member of the graduating class in recognition of excellence in the study of landscape architecture.

Columbus Chapter, Producers' Council, Inc. Award. Awarded annually to the graduating senior who has maintained the highest scholastic average in the architectural construction courses.

Merle Robert Maffit Memorial Fund. Established by gifts through the Development Fund from friends, associates, and family. The income is to be used for scholarships to students in architecture.

Stow and Davis Awards. Established by a gift through the Development Fund for an award to a promising fourth-year student on the basis of design.

Students are also eligible to compete for scholarships of the American Academy in Rome, the Association of the Alumni of the American Academy in Rome collaborative competition, and the *Paris Prize.*

Graduate students are eligible as candidates for certain fellowships offered by the Graduate School.

ACADEMIC PROGRAMS

Curriculum In Architecture

A new four-year curriculum leading to the degree Bachelor of Science in Architecture was initiated in 1968. This program combines a general undergraduate education with introductory studies in architecture.

Graduates of the four-year program may seek (1) employment in an architect's office; (2) employment in the building industry; or (3) graduate study for professional education in architecture. Graduate study leads to the degree Master of Architecture and should be sought by those students whose aim, subsequently, is professional registration as Architect.

The present five-year program leading to the degree Bachelor of Architecture will continue for the purpose of permitting students now enrolled in it to complete their studies; and students currently enrolled may transfer to the new four-year program upon written application to the School.

The School is a member of the Association of Collegiate Schools of Architecture and is fully acredited by the National Architectural Accrediting Board.

For additional information write to the School of Architecture, The Ohio State University, 190 West 17th Avenue, Columbus, Ohio 43210.

DEGREE REQUIREMENTS

Bachelor of Science in Architecture

GENERAL ACADEMIC REQUIREMENTS	HOURS
English 101, 102, 103, and 301	14
History 121, 122, and 123	15
Social Sciences	15
Sociology 201, Economics 201, and Political Science 265	
Mathematics 150 and 151 or higher	10
Physical Sciences	10
Physics 111 and 112	
Biological Science	5
Humanities[1]	15
Electives[1]	20

[1] Student's choice of courses in the humanities and electives should be guided by his own particular interests and ability and the advice of his counselor.

MAJOR ARCHITECTURAL REQUIREMENTS	HOURS
Architectural Design	45
History of Architecture	9
Architectural Construction	9
Architectural Building Equipment	9
Inspection Trip	2

ALLIED REQUIREMENTS	HOURS
Fine Arts	9
Engineering Mechanics	10

In addition to the above specific requirements for the degree Bachelor of Science in Architecture, each candidate for that degree must satisfy all general University and University College requirements with respect to ROTC or an academic alternative, physical education, health education, and survey.

CURRICULUM

Bachelor of Science in Architecture
(Four-year program)

FIRST YEAR (Effective Summer Quarter 1968)		HOURS
AUTUMN	English 101	3
	Mathematics 150	5
	History 121	5
	Survey	1
	Military Science or Air Force Aerospace Studies	2
	Physical Education 101	1
		17
WINTER	English 102	3
	Mathematics 151	5
	History 122	5
	Military Science or Air Force Aerospace Studies	2
	Physical Education 102	1
		16
SPRING	English 103	3
	Physics 111	5
	History 123	5
	Military Science or Air Force Aerospace Studies	2
	Physical Education 103	1
	Health Education 101	1
		17

SECOND YEAR HOURS
(Effective Autumn Quarter 1968-69)

AUTUMN	Architecture 111 Introductory Architectural Design	5
	Architecture 601 History—Ancient	3
	Fine Arts 295	3
	Physics 112	5
	Military Science or Air Force Aerospace Studies	2
		18
WINTER	Architecture 112 Introductory Architectural Design	5
	Architecture 602 History—Medieval and Renaissance	3
	Fine Arts 296	3
	Engineering Mechanics 201	5
	Military Science or Air Force Aerospace Studies	2
		18
SPRING	Architecture 113 Introductory Architectural Design	5
	Architecture 603 History—Contemporary	3
	Fine Arts 297	3
	Engineering Mechanics 202	5
	Military Science Air Force Aerospace Studies	2
		18

THIRD YEAR HOURS
(Effective Autumn Quarter 1969-70)

AUTUMN	Architecture 211 Elementary Architectural Design and Theory	5
	Architecture 521 Elementary Architectural Construction	3
	Sociology 201	5
	English 301	5
		18
WINTER	Architecture 212 Elementary Architectural Design and Theory	5
	Architecture 522 Elementary Architectural Construction	3
	Economics 201	5
	Elective[1]	5
		18
SPRING	Architecture 213 Elementary Architectural Design and Theory	5
	Architecture 523 Elementary Architectural Construction	3
	Political Science 265	5
	Elective[1]	5
		18
	Architecture[2] 689 Inspection Trip	2

FOURTH YEAR (Effective 1970-71) HOURS

AUTUMN	Architecture 511 Intermediate Architectural Design	5
	Architecture 661 Architectural Building Equipment	3
	Humanities[1]	5
	Elective[1]	5
		18
WINTER	Architecture 512 Intermediate Architectural Design	5
	Architecture 662 Architectural Building Equipment	3
	Humanities[1]	5
	Elective[1]	5
		18
SPRING	Architecture 513 Intermediate Architectural Design	5
	Architecture 663 Architectural Building Equipment	3
	Humanities[1]	5
	Elective[1]	5
		18

[1] Student's choice of courses in the humanities and electives should be guided by his own particular interests and ability and the advice of his counselor.

[2] The Inspection Trip is taken between the Winter and Spring Quarters. Credit is arranged by adding the course to the student's Spring Quarter schedule.

CURRICULUM

Bachelor of Architecture
(Five-year program)

FIRST YEAR HOURS
(Withdrawn after Spring Quarter 1968)

AUTUMN	Architecture 111 Introductory Architectural Design	4
	Mathematics 150 Algebra and Trigonometry	5
	English 101	3
	Physics 111	5
	Military Science or Air Force Aerospace Studies	2
	Physical Education 101	1
		20
WINTER	Architecture 112 Introductory Architectural Design	4
	Mathematics 151 Calculus and Analytic Geometry	5
	English 102	3
	Physics 112	5
	Military Science or Air Force Aerospace Studies	2
	Physical Education 102	1
		20
SPRING	Architecture 113 Introductory Architectural Design	4
	Mathematics 152 Calculus and Analytic Geometry	5
	English 103	3
	Life Science Elective	5
	Military Science or Air Force Aerospace Studies	2
	Physical Education 103	1
	Health Education 101	1
		21

SECOND YEAR HOURS
(Withdrawn after Spring Quarter 1969)

AUTUMN	Architecture 211 Elementary Architectural Design and Theory	5
	Engineering Mechanics 201 Applied Mechanics I	4
	History 121 The Western World	5
	Fine Arts 295	3
	Military Science or Air Force Aerospace Studies	2
		19

WINTER	Architecture 212	5
	Elementary Architectural Design and Theory	
	Engineering Mechanics 202	4
	Applied Mechanics II	
	History 122	5
	The Western World	
	Fine Arts 296	3
	Military Science or Air Force Aerospace Studies	2
		19
SPRING	Architecture 213	5
	Elementary Architectural Design and Theory	
	Engineering Mechanics 203	4
	Applied Mechanics III	
	History 123	5
	The Western World	
	Fine Arts 297	3
	Military Science or Air Force Aerospace Studies	2
		19

THIRD YEAR HOURS

(To be withdrawn after Spring Quarter 1970)

AUTUMN	Architecture 511	5
	Intermediate Architectural Design	
	Architecture 521	3
	Elementary Architectural Construction	
	Sociology 201	5
	Fundamentals	
	Elective[2]	5
		18
WINTER	Architecture 512	5
	Intermediate Architectural Design	
	Architecture 522	3
	Elementary Architectural Construction	
	Economics 201	5
	Fundamentals	
	Elective[2]	5
		18
SPRING	Architecture 513	5
	Intermediate Architectural Design	
	Architecture 523	3
	Elementary Architectural Construction	
	Political Science 265	5
	Government	
	Elective[2]	5
		18
	Architecture[1] 689	2
	Inspection Trip	

FOURTH YEAR HOURS

(To be withdrawn after Spring Quarter 1971)

AUTUMN	Architecture 611	6
	Advanced Architectural Design	
	Architecture 621	4
	Intermediate Architectural Construction	
	Architecture 661	4
	Architectural Building Equipment	
	Architecture 601	3
	History-Ancient	
		17
WINTER	Architecture 612	6
	Advanced Architectural Design	
	Architecture 622	4
	Intermediate Architectural Construction	
	Architecture 662	4
	Architectural Building Equipment	
	Architecture 602	3
	History-Medieval and Renaissance	
		17
SPRING	Architecture 613	6
	Advanced Architectural Design	
	Architecture 623	4
	Intermediate Architectural Construction	
	Architecture 663	4
	Architectural Building Equipment	
	Architecture 603	3
	History-Contemporary	
		17
	Architecture[1] 689	2
	Inspection Trip	

FIFTH YEAR HOURS

(To be withdrawn after Spring Quarter 1972)

AUTUMN	Architecture 711	7
	Advanced Architectural Design and Thesis	
	Architecture 751	3
	Professional Practice	
	Architecture 721	5
	Advanced Architectural Construction	
	Technical Elective[3]	3
		18
WINTER	Architecture 712	7
	Advanced Architectural Design and Thesis	
	Architecture 752	3
	Professional Practice	
	Architecture 722	5
	Advanced Architectural Construction	
	Technical Elective[3]	3
		18
SPRING	Architecture 713	10
	Advanced Architectural Design and Thesis	
	Architecture 723	5
	Advanced Architectural Construction	
	Technical Elective[3]	3
		18

[1] Architecture 689 may be either during the third or fourth year. The trip is taken between Winter and Spring Quarters. Credit is arranged by adding the course to the student's Spring Quarter schedule.

[2] Five credits must be taken in the humanities area, either in philosophy or literature selected from the list approved in the College of Engineering; choice of the other 10 credits should be guided by the student's particular interests and ability.

[3] Nine credit hours of technical elective must be selected from Architecture 693 and 700; City and Regional Planning 300, 731, 742, and 794; and Landscape Architecture 300 and 693; or from others approved by student's adviser.

Curriculum In Landscape Architecture

The landscape architecture curriculum is directed towards educating young men and women to create safe, healthful, and beautiful outdoor spaces and environments for human use and enjoyment.

The sequence of professional and general courses is carefully scheduled to provide for the overall development of the student. Through professional studies in landscape design, horticulture, landscape construction, and basic studies in architecture, the student acquires the knowledge and skill for professional practice. The program of general studies covers the in-

terrelationship between the professional practice of landscape architecture and the physical and biological sciences and the humanities. An understanding of the interrelationships between the design disciplines is fostered through collaborative assignments with students in fine arts, architecture, and city and regional planning. Through this collaborative process the student acquires basic training for professionals from the several design disciplines.

The medium of the landscape architect is nature, and his structural materials basically are plants and land forms. Landscape architecture differs from architecture in that the profession is concerned with design of outdoor space.

Numerous field trips are scheduled, some extending to several hundred miles, to view the range of accomplishments of the profession, and to provide the student with a first-hand acquaintanceship with the various natural conditions and habitats with which he will work. To increase further his knowledge of the field, the student is encouraged to accept during the summer months positions which bring him in contact with the activities and media of the profession.

Upon successful completion of the five-year undergraduate program, a Bachelor of Landscape Architecture degree is awarded. After a period of apprenticeship training in the employ of a practicing landscape architect, the graduate should be prepared adequately to take the professional examination for registration to practice landscape architecture. The curriculum is accredited by the American Society of Landscape Architects.

BASIC EDUCATION REQUIREMENTS

As an integral part of the total requirements for graduation each student in landscape architecture is required to complete 75 hours in certain courses in Basic Education, as follows:

PHYSICAL SCIENCE—5 CREDITS
Physics 111—5 cr. required.

LIFE SCIENCE—10 CREDITS
Botany 100—5 cr. and
Botany 101—5 cr. required.

SOCIAL SCIENCE—30 CREDITS
History 121, 122, and 123—
5 credits each required.
Sociology 201, Economics 201, and
Political Science 265—5 credits each required.

HUMANITIES—10 CREDITS
Student must elect 10 credits from list approved by the College of Engineering.

ELECTIVES—20 CREDITS
Student's choice should be guided by his own particular interests and ability.

CURRICULUM IN LANDSCAPE ARCHITECTURE

FIRST YEAR		HOURS
AUTUMN	Architecture 111 ..... Introductory Architectural Design	4
	Mathematics 150 ..... Algebra and Trigonometry	5
	English 101	3
	Physics 111	5
	Military Science or Air Force Aerospace Studies	2
	Physical Education 101	1
		20
WINTER	Architecture 112 ..... Introductory Architectural Design	4
	Mathematics 151 ..... Calculus and Analytic Geometry	5
	English 102	3
	Botany 100	5
	Military Science or Air Force Aerospace Studies	2
	Physical Education 102	1
		20
SPRING	Architecture 113 ..... Introductory Architectural Design	4
	Mathematics 152 ..... Calculus and Analytic Geometry	5
	English 103	3
	Botany 101	5
	Military Science or Air Force Aerospace Studies	2
	Physical Education 103	1
	Health Education 101	1
		21

SECOND YEAR		HOURS
AUTUMN	Architecture 211 ..... Elementary Architectural Design and Theory	5
	Landscape Architecture 201 ..... History of Landscape Architecture	3
	History 121 ..... The Western World	5
	Fine Arts 295	3
	Military Science or Air Force Aerospace Studies	2
		18
WINTER	Architecture 212 ..... Elementary Architectural Design and Theory	5
	Landscape Architecture 202 ..... History of Landscape Architecture	3
	History 122 ..... The Western World	5
	Fine Arts 296	3
	Military Science or Air Force Aerospace Studies	2
		18

SPRING	Architecture 213 Elementary Architectural Design and Theory	5
	Landscape Architecture 203 History of Landscape Architecture	3
	History 123 The Western World	5
	Fine Arts 297	3
	Military Science or Air Force Aerospace Studies	2
		18

THIRD YEAR

		HOURS
AUTUMN	Architecture 511 Intermediate Architectural Design	5
	Sociology 201 Fundamentals	5
	Horticulture 432 Ornamental Plants	5
	Landscape Architecture 221 Landscape Construction	3
		18
WINTER	Architecture 512 Intermediate Architectural Design	5
	Economics 201 Fundamentals	5
	Horticulture 433 Ornamental Plants	5
	Landscape Architecture 222 Landscape Construction	3
		18
SPRING	Architecture 513 Intermediate Architectural Design	5
	Political Science 265 Government	5
	Civil Engineering 201 Elementary Surveying	5
	Landscape Architecture 223 Landscape Construction	3
		18
	Architecture[1] 689 Inspection Trip	2

FOURTH YEAR

		HOURS
AUTUMN	Landscape Architecture 611 Intermediate Landscape Design	6
	Landscape Architecture 661 Planting Design	3
	Landscape Architecture 621 Landscape Construction	4
	Elective[2]	5
		18
WINTER	Landscape Architecture 612 Intermediate Landscape Design	6
	Landscape Architecture 662 Planting Design	3
	Landscape Architecture 622 Landscape Construction	4
	Elective[2]	5
		18
SPRING	Landscape Architecture 613 Intermediate Landscape Design	6
	Landscape Architecture 663 Planting Design	3
	Landscape Architecture 623 Landscape Construction	4
	Elective[2]	5
		18
	Architecture[1] 639 Inspection Trip	2

FIFTH YEAR

		HOURS
AUTUMN	Landscape Architecture 711 Advanced Landscape Design	6
	Landscape Architecture 721 Advanced Landscape Construction	4
	Landscape Architecture 750 Professional Practice	3
	Elective[2]	5
		18
WINTER	Landscape Architecture 712 Advanced Landscape Design	6
	Landscape Architecture 722 Advanced Landscape Construction	4
	Technical Elective[3]	3
	Elective[2]	5
		18
SPRING	Landscape Architecture 713 Advanced Landscape Design	6
	Landscape Architecture 723 Advanced Landscape Construction	4
	Technical Elective[3]	3
	Elective[2]	5
		18

[1] Architecture 689 may be taken either during the third or fourth year. The trip is taken between Winter and Spring Quarters. Credit is arranged by adding the course to the student's Spring Quarter schedule.

[2] Ten credits must be taken in the humanities area selected from the list approved in the College of Engineering; choice of the other 20 credits should be guided by the student's particular interests and ability.

[3] Six credit hours of technical elective must be selected from Architecture 693 and 700; City and Regional Planning 300, 731, 742, and 794; and Landscape Architecture 300 and 693; or from others approved by student's adviser.

The elective program is taken with the consent of the faculty adviser, who has information on individual courses or areas of study.

GRADUATE PROGRAMS

The curriculum for the Master of Architecture degree requires at least one year of specialized graduate study and research. Detailed information on the program and on admissions is given in the Graduate School catalog.

The curriculum for the Master of City Planning degree requires at least two years of graduate study. Detailed information on the program is given in the Graduate School catalog.

PROFESSIONAL AND HONOR SOCIETIES

Undergraduate students in the School are eligible for student membership in their respective national, professional organizations, the American Institute of Architects and the American Society of Landscape Architects.

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through either Physics 132 or Chemistry 122; earned the point-hour ratio which satisfies University academic standards.

A student who has satisfied the above criteria in a pre-engineering program at another accredited college or university may enroll directly in the College of Engineering to begin specialized studies in engineering.

The College of Engineering offers 12 different degree programs. Each of these programs includes a significant amount of work in mathematics, basic and engineering sciences, English, and liberal studies required in common for every engineering degree. At the same time, each program is individually designed to develop the unique concepts and disciplines involved in analysis, synthesis, and design of engineering systems appropriate to that branch of the profession. The student normally begins the specialized coursework of one of the branch curricula at the start of his second year, when he moves into the College of Engineering from the University College.

Four-Year Curricula

Aeronautical and Astronautical Engineering
Agricultural Engineering
Ceramic Engineering
Chemical Engineering
Civil Engineering
Computer and Information Science
Electrical Engineering
Engineering Physics
Industrial Engineering
Mechanical Engineering
Metallurgical Engineering
Welding Engineering

SCHOOL OF ARCHITECTURE

The School of Architecture is an integral part of the College of Engineering and offers undergraduate programs leading to the degrees Bachelor of Science in Architecture, Bachelor of Architecture, and Bachelor of Landscape Architecture.

These undergraduate programs, together with the graduate programs in Architecture and City and Regional Planning, provide an interdisciplinary atmosphere for studies in the design of man's physical environment.

The undergraduate curricula in both architecture and landscape architecture are based on a common program of study in the early years which branches out into specialized areas of study within the two professional disciplines during the later years.

Students planning to enter a program in the School of Architecture should acquire the same high school preparation as recommended for students interested in an engineering program, except that one unit of chemistry or one unit of physics may be chosen, rather than both.

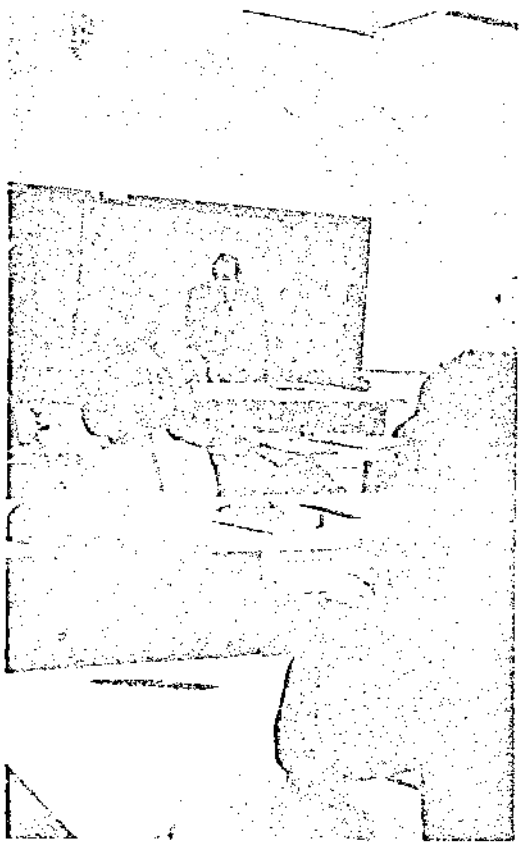
Before admission, applicants should take the Architectural School Aptitude Test given by the Educational Testing Service, Princeton, New Jersey 08540; and applicants should confer with practicing architects, landscape architects, and other professionals in their home communities.

Four-year Curriculum

Architecture (B.S. in Arch.)
—May be followed by a two-year program (M. Arch.) for the first professional degree.

Five-year Curricula

Architecture (B. Arch.)—To be withdrawn after 1972.
Landscape Architecture (B. Land. Arch.)



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coursework is required of others, but not to exceed a total of one additional year. The courses are planned to give the student a broad coverage of business subjects, including economics. In the accounting coursework offered, an attempt is made to achieve balance among the various areas of accounting. Students may achieve some degree of specialization within the field by proper selection of elective courses. The program permits substantial coursework in non-accounting areas, including mathematics and the behavioral sciences, for those who present prerequisites to graduate study in those areas. Under Plan A, a thesis, for which 3 quarter hours of credit are given, is written. The Department also offers the Plan B option. Within the 50-credit-hour requirement, the student must present a minor concentration in a field other than accounting. A final written examination and an oral examination which cover the major areas of accounting are held.

The Master of Arts degree is also offered for students having special interests not served by the Master of Accounting program.

MASTER OF ARCHITECTURE

The program of graduate studies in architecture leading to a Master of Architecture degree provides for mature candidates a framework of opportunities for individual research in architecture. The graduate curriculum contains a number of specialized study program possibilities for candidates seeking further professional development, for specialized architectural practice, or for preparation for careers in architectural education.

The one-year program provides opportunities for extending professional and scholarly development in several architectural fields including:

Urban Design
Architectural Design
Environmental Design
Theory of Architecture
History of Architecture
Architectural Education
Protective Construction
Architectural Structures
Construction Technology
Architectural Photography
Architectural Photogrammetry

Interdisciplinary studies combining graduate work in architecture with studies in any of the other departments of the University are encouraged. The diversity of graduate curricula and courses offered at the University and the ongoing University research effort underlie the interdisciplinary character of the graduate curriculum in architecture. The core of the graduate curriculum is a series of weekly seminars on the theory and practice of architecture. Each candidate's study program, in addition to the seminars, is prepared individually in consultation with the faculty. The curriculum emphasizes individual development through research in architectural and interdisciplinary fields and through special projects and studies within the candidate's area of specialization and interest. The general form of the graduate curriculum in architecture consists of three parts. The first part, which is required of all degree candidates, is the program of seminars in architecture. Conducted weekly, these seminars are intended as the forum for interaction between the specialized interests and study programs of those enrolled in the program. The second part consists of a number of graduate courses offered in the School of Architecture. Part three includes those graduate-level courses in other departments which may be taken as electives.

The Master of Architecture degree requires the completion of 45 credit hours of graduate study and normally the completion of a thesis. The number of credit-hours of interdepartmental seminar, design, special studies, thesis, and electives undertaken by each candidate is widely variable. The actual distribution of credit hours between parts two and three will be dependent upon the nature of the candidate's field of study.

Degree candidates may take up to 30 credit hours of elective coursework outside the School of Architecture in any of the other fields of graduate study offered at the University.

MASTER OF BUSINESS ADMINISTRATION

The basic objective of the M.B.A. degree program is to provide the depth and breadth of knowledge needed to manage modern organizations.

Those completing the program will have (1) acquired an awareness and understanding of administrative principles that have

pects of the program are selected from an approved list in consultation with an adviser from the Department of Agricultural Economics and Rural Sociology.

2. Hospital and Health Services Administration—A concentration in this area is available to those M.B.A. candidates who desire to accomplish the following twofold purpose:
   A. To obtain professional education basic to the administration of hospitals and health service organizations.
   B. To conduct research concerning the delivery of health care.

   A prescribed program requires the M.B.A. core courses, specified hospital and health services administration courses, and a group of electives to be chosen from an approved list. A thesis is not required.

MASTER OF CITY PLANNING

The Master of City Planning degree (M.C.P.) requires completion of 90 credit hours of graduate study.

The primary emphases of the curriculum are on professional education for general urban planning and on fostering the development of patterns of analytic thought that will result in future contributions to to the rapid evolution of the profession. Graduates are trained to hold responsible positions in the expanding programs of public and private planning agencies.

The core of the curriculum in the first year consists of three sequences of courses: (1) the physical elements of urban areas; (2) techniques of research and analysis in planning; and (3) introduction to the theory and history of planning. In the second year the core consists of two sequences: (1) workshop preparation of general urban plans, and (2) land-use controls and the administration of planning agencies. Preparation of a thesis is required, and usually scheduled throughout the second year.

The remainder of the curriculum, about one-third, is selected from planning-related courses in various departments of the University. These courses include the fields of urban geography, regional and resource development, engineering aspects, and urban studies in economics, sociology, and political science. A student may propose any combination of courses for this group that will fit his need, background, and objectives.

One-quarter of supervised experience on the staff of an approved planning organization is required. This experience is usually scheduled during the summer between the two years of required coursework. Students are assisted in making arrangements for this field experience.

Admission Requirements. Undergraduate preparation may be in any field. Most students have been prepared in a social science field (economics, geography, political science or public administration, sociology) or in a design profession (architecture, civil engineering, landscape architecture).

Each applicant should have at least an introduction to the two subjects of economics and statistics. Students who will complete this requirement early in the graduate program may be admitted.

Address inquiries to the Chairman, Division of City and Regional Planning.

MASTER OF FINE ARTS

The M.F.A. is offered as an advanced graduate program in the studio disciplines. It is a 90-credit-hour program, including the thesis. A minimum of 50 hours must be taken in one of the major fields of specialization (ceramics, graphics, painting, or sculpture), with 10 to 15 hours to be taken in any one of the remaining three graduate studio fields, 10 to 15 hours in one field, either art history or a field outside the Divisions of Art, and 10 hours of electives from any area outside the Divisions of Art.

An exhibition and a supplementary statement, as well as a satisfactory score on a two-hour examination, are called for to satisfy the thesis requirement.

Applicants who have received the M.A. degree in art prior to application may be allowed up to 45 hours of credit toward the M.F.A. degree as recommended by the reviewing committee, distributed as follows: up to 25 hours in the studio field of specialization, and up to 20 hours distributed among the related studio, academic, and elective requirements.

MASTER OF SOCIAL WORK

The Master of Social Work degree (M.S.W.) is the professional degree granted upon completion of two years of graduate study requiring the equivalent of six quarters

Significant library or research facilities available to students in this department: The main library and the Library of the Ohio Historical Society house collections in specialized fields in anthropology. The facilities of the Ohio State Museum are available by permission of the Curator, Director, and Department Chairman.

ARCHITECTURE

Prof. Elliot L. Whitaker, 106 Brown Hall, 190 West 17th Avenue

Professors P. E. Borchers, G. M. Clark, H. E. Phillian, G. L. Tilley, E. L. Whitaker; Associate Professors W. W. Bowser, H. S. Brinkers, G. H. Coddington, L. C. Gerckens, W. R. Mills.

Graduate degree offered: Master of Architecture

Admission requirements not stated in the general Graduate School section: The minimum requirements for admission to the graduate curriculum are a Bachelor of Architecture degree from an accredited school of architecture and a minimum point-hour ratio in all undergraduate work taken prior to the baccalaureate degree, as established by the Graduate School.

Applicants for admission to the program of graduate studies in architecture are not required to take the Graduate Record Examinations. However, an applicant whose cumulative point-hour ratio is below the Graduate School minimum must take the Aptitude Test Portion of the Graduate Record Examination. A satisfactory score will provide valuable evidence of the applicant's qualifications to undertake graduate studies. Applicants with less than the minimum requirements for admission may be admitted to the graduate program in architecture with special conditions for coursework as individually determined.

Significant library facilities available to students in the School: Brown Hall Library serves the School with a large specialized collection of books, periodicals, slides, and reference material supplementing the resources of the entire University Libraries.

ART

Prof. Bruce Barton, Acting Chairman, Division of Art; Prof. Manuel Barkan, Chairman, Division of Art Education; Prof. Glenn N. Patton, Chairman, Division of Art History; Prof. A. Charles Wallschlaeger, Chairman, Division of Design.

Prof. James W. Baughman, Graduate Committee Secretary, Fine Arts Building, 128 North Oval Drive

Professors Manuel Barkan, Paul Bogatay, Sidney Chafetz, Charles A. Csuri, Eugene B. Friley, Robert M. Gatrell, Robert D. King, Franklin M. Ludden, Glenn N. Patton, D. Alexander Severion, Hoyt L. Sherman, Donald G. Wood, Fred A. Zimmer, Jr.; Associate Professors James W. Baughman, David E. Black, Maurice E. Copa, John B. Freeman, Gilbert W. Hall, Erwin F. Hebner, Edward W. Hewett, Leonard W. Kitts, William R. Krueger, Anthony Melnikas, A. Charles Wallschlaeger; Assistant Professors Laura Chapman, Arthur D. Efland, Sadja J. Herzog, Harold J. McWhinnie, David E. Templeton.

Graduate degrees offered: Master of Arts, Master of Fine Arts, Doctor of Philosophy

Admission requirements not stated in the general Graduate School section: A three- to five-hundred-word statement of purpose must be sent to the Executive Secretary, Graduate Committee, Fine Arts. A studio area candidate must present a representative portfolio of his work. Slides or photographs are acceptable, except for painting candidates who should submit ten drawings and four paintings in the original when feasible. Eighteen hours of credit in art history are required. An art history candidate must have a B.A. or B.F.A., a record of intermediate courses in art history, and a reading knowledge of one modern foreign language.

Specific fields of knowledge required in the minimal master's program: Students wishing the master's degree in art education, history of art, or one of the studio disciplines must have 60 hours, at least 45 of which should be taken in coursework. Those seeking a Master of Arts degree in design must have 90 hours assigned by area. Art education offers the Plan B thesis option to be declared no later than the point at which 45 credit hours have been earned.

The M.F.A. degree is offered in the studio fields of ceramics, painting-graphics, and sculpture. The 90-credit-hour requirement beyond the B.A. or B.F.A. degree includes 50 hours in the major studio field, 10-15 hours in one of the remaining studio fields, and 20-25 hours in non-studio courses.

Specific fields of knowledge for which all doctoral students are held responsible: The Ph.D. degree, in the major fields where it is currently offered (history of art, and art education), requires 90 hours of credit beyond the M.A. or M.F.A. degree including credit hours for work on the dissertation. The program of study includes a

APPENDIX F 3

STUDENT HONORS

PROGRAMS

SCHOOL OF ARCHITECTURE AND LANDSCAPE ARCHITECTURE

THE OHIO STATE UNIVERSITY

STUDENTS HONORS PROGRAM

SATURDAY, MAY 14, 1966

THE OHIO UNION

Speaker: CHARLES M. NES, JR.

President Elect of the American Institute of Architects

AMERICAN INSTITUTE OF ARCHITECTS MEDAL. Awarded annually to the graduating senior who has maintained the best scholastic average throughout the entire professional course. A copy of the book, Mont St. Michel and Chartres, provided from the Henry Adams fund of the A.I.A., is given to the medal winner and the next highest senior.

Medal and Book: JONATHAN LEE MOORE.....Norwalk, Ohio
Book: MARTIN EDWARD CRAHAN.....Gnadenhutten, Ohio

ALPHA RHO CHI MEDAL. Awarded annually to the graduating senior in architecture who has shown an ability for leadership, service for his school and gives promise of professional merit.

STEPHEN SHARR.....Columbus, Ohio

The Columbus Chapter, AMERICAN INSTITUTE OF ARCHITECTS AWARD. Awarded annually to a student of the Student Chapter of the A.I.A. on the basis of outstanding service to his profession.

RAYMOND MERCER HARPHAM.....Columbus, Ohio

Certificate of Merit of the ARCHITECTS SOCIETY OF OHIO. Awarded annually to an outstanding senior.

TATIANA TENSON.....Bellaire, Ohio

Certificate of Merit of the ARCHITECTS SOCIETY OF OHIO. Awarded annually to an outstanding fourth year student.

RAYMOND MERCER HARPHAM.....Columbus, Ohio

The Columbus Chapter, PRODUCERS' COUNCIL, INC., AWARD. Awarded annually to the graduating senior who has maintained a high scholastic average in the architectural construction courses.

JOHN GOULD HOYT.....Columbus, Ohio

JOSEPH N. BRADFORD MEMORIAL FUND. Established by gifts through the Development Fund from graduates of the School of Architecture, the income of which is used for a scholarship to be given annually to a talented and worthy student.

THOMAS JOHN INGMIRE.....Roanoke, Indiana

MERLE ROBERT MAFFIT MEMORIAL FUND. Established 1963 by gifts through the Development Fund from friends of Merle Robert Maffit, the income of which is to be used for scholarships to students in Architecture.

YOUNG HOON KWAK.....Seoul, Korea

HOWARD DWIGHT SMITH SCHOLARSHIP. Established 1956 by gifts through the Development Fund from friends of Howard Dwight Smith, the income of which is to be used for scholarships to students in Architecture.

DAVID NEIL BOWMAN.....Columbus, Ohio

AMERICAN INSTITUTE OF ARCHITECTS SCHOLARSHIP. Through the cooperation of the American Institute of Architects Foundation, this scholarship is awarded to an outstanding student for graduate study.

GARY ALAN SCHAEFER.....Fairview Park, Ohio

AMERICAN INSTITUTE OF ARCHITECTS SCHOLARSHIP. Through the cooperation of the American Institute of Architects Foundation, this scholarship is awarded to an outstanding student for undergraduate study.

ROBERT JOSEPH VENNEMEYER.....Cincinnati, Ohio

STOW AND DAVIS AWARD. Established by a gift through the Development Fund for an award for promising fourth year students on the basis of design.

GERALD CICHANSKI.....Toledo, Ohio

SHOKBETON COMPETITION. A student competition for the design of an industrial plant for the production of pre-cast concrete.

First Prize: HENRY STEPHENSON ABBOT.....Columbus, Ohio
Mention: WILLIAM LEE EVERHART.....Columbus, Ohio
Mention: DAVID WARNER FRITSCHE.....Columbus, Ohio
Mention: HENRY LEE HINER.....Columbus, Ohio
Mention: THOMAS LEE KERNS.....Dayton, Ohio
Mention: JONATHAN LEE MOORE.....Norwalk, Ohio
Mention: GARY ALAN SCHAEFER.....Fairview Park, Ohio

KOPPERS COMPETITION. A student competition for the design of a building involving the use of a flat roof.

First Prize: EDWARD ARTHUR RHODES.....Garden City, N. Y.
Mention: DAVID NEIL BOWMAN.....Columbus, Ohio
Mention: ERIC HALBY COOKSTON.....Worthington, Ohio
Mention: MICHAEL J. FITZPATRICK.....Worthington, Ohio
Mention: JOHN E. WILLIAMS.....Columbus, Ohio

ILLUMINATING ENGINEERING SOCIETY PRIZE

First Prize: ERIC HALBY COOKSTON.....Worthington, Ohio
Second Prize: ROBERT EARL EUANS.....Columbus, Ohio
Third Prize: MICHAEL J. FITZPATRICK.....Worthington, Ohio

1966 NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS PRIZE

Ohio Special Prize: TATIANA TENSON.....Bellaire, Ohio
Honorable Mention: GENE ROGER MILHOAN.....Worthington, Ohio
Honorable Mention: JAMES THOMAS RECTOR.....Columbus, Ohio

FOURTH YEAR SPECIAL AWARD. The most improved student by class selection.

ABDUL AZIM UJAYLI.....Rakka, Syria

THE FACULTY PRIZE. Awarded annually to outstanding students in Architecture, Landscape Architecture and City Planning.

4th Year: KENT CHRISTIAN UNDERWOOD.....Columbus, Ohio
3rd Year: ROBERT JOSEPH VENNEMEYER.....Cincinnati, Ohio
2nd Year: YOUNG HOON KWAK.....Seoul, Korea
1st Year: WILLIAM PARKER BRIDGES.....Ontario, N. Y.

LANDSCAPE ARCHITECTURE

AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS. Certificate of Merit.

MART KIBENA.....Latrobe, Pa.

1965 ROADSIDE DEVELOPMENT COMPETITION. Sponsored by the Ohio Roadside Council, Inc., the Ohio Association of Garden Clubs and the Garden Club of Ohio, Inc., for students in planting design.

DOUGLAS ANDREW GREIG.....Hamilton, Ohio

FACULTY PRIZE in Landscape Architecture

DEBORAH EDSALL.....Columbus, Ohio

CITY AND REGIONAL PLANNING

AMERICAN INSTITUTE OF PLANNERS Nominee

EUGENE EDMUND CARR.....Salt Lake City, Utah

PITTSBURGH PLATE GLASS FOUNDATION Fellow

MICHAEL ALAN CALVERT.....Columbus, Ohio

FACULTY PRIZE in City and Regional Planning

2nd Year: JAMES ARNOLD SPENCER.....Jackson, Tennessee
1st Year: ALEXANDER D. FITTINGHOFF.....Oakland, California

GRADUATING SENIORS

1965–66

BACHELOR OF ARCHITECTURE

Henry S. Abbot
David G. Bodenbender
Thomas W. Casey
Chung-Shong Chuang
Martin E. Crahan
William L. Everhart
Ann S. Flaherty
Michael H. Frawley
David W. Fritsche
Frank S. Gerlak
Fredric A. Goodman
Henry L. Hiner
John G. Hoyt
Thomas L. Kerns
Homer R. McKnight
Gene R. Milhoan
Jonathan L. Moore
Thomas G. Mosher
Frank A. Norcross
George E. Parker
Richard D. Pritts
James T. Rector
Martin G. Santini
Gary A. Schaefer
Donald A. Scheid
Stephen Sharr
Judith R. Solomon
John L. Sparks
Tatiana Tenson
Douglas E. Weatherby

BACHELOR OF LANDSCAPE ARCHITECTURE

John H. Deeth
Mart Kibena
Robert D. McClain
Thomas J. Nieman

MASTER OF ARCHITECTURE

Neville Clouten
Harry Lau
Albert Sedeen

MASTER OF CITY PLANNING

Roy E. Baranyay
John F. Betak
Herbert R. Carpenter
Eugene E. Carr
David E. Durham
James R. Robert
Richard F. Sale
Stuart R. Shaffer
Joseph S. Solomon
Robert D. Spaulding
James Spencer
Cyrus A. Yoakam

SCHOOL OF ARCHITECTURE

THE OHIO STATE UNIVERSITY

STUDENTS HONORS PROGRAM

SATURDAY, MAY 6, 1967

THE OHIO UNION

Speaker: ARCHIBALD C. ROGERS

Architect, Baltimore, Maryland

AMERICAN INSTITUTE OF ARCHITECTS MEDAL. Awarded annually to the graduating senior who has maintained the best scholastic average throughout the entire professional course. A copy of the book, Mont St. Michel and Chartres, provided from the Henry Adams fund of the A.I.A., is given to the medal winner and the next highest senior.

Medal and Book: David Neil Bowman.....Columbus, Ohio
Book: Kent Christian Underwood.....Columbus, Ohio

ALPHA RHO CHI MEDAL. Awarded annually to the graduating senior in architecture who has shown an ability for leadership, service for his school and gives promise of professional merit.

Frederick Shelly Faber.....Columbus, Ohio

The Columbus Chapter, AMERICAN INSTITUTE OF ARCHITECTS AWARD. Awarded annually to a student of the Student Chapter of the A.I.A. on the basis of outstanding service to his profession.

Raymond Mercer Harpham.....Columbus, Ohio

Certificate of Merit of the ARCHITECTS SOCIETY OF OHIO. Awarded annually to an outstanding senior.

Gerald Cichanski.....Toledo, Ohio

Certificate of Merit of the ARCHITECTS SOCIETY OF OHIO. Awarded annually to an outstanding fourth year student.

Donald Robert Hoover.....Grove City, Ohio

The Columbus Chapter, PRODUCERS' COUNCIL, INC., AWARD. Awarded annually to the graduating senior who has maintained a high scholastic average in the architectural construction courses.

Kent Christian Underwood.....Columbus, Ohio

JOSEPH N. BRADFORD MEMORIAL FUND. Established by gifts through the Development Fund from graduates of the School of Architecture, the income of which is used for a scholarship to be given annually to a talented and worthy student.

John James Diamond.....Columbus, Ohio

MERLE ROBERT MAFFIT MEMORIAL FUND. Established 1963 by gifts through the Development Fund from friends of Merle Robert Maffit, the income of which is to be used for scholarships to students in architecture.

Hans-Harald Grote.....Westerville, Ohio

HOWARD DWIGHT SMITH SCHOLARSHIP. Established 1956 by gifts through the Development Fund from friends of Howard Dwight Smith, the income of which is to be used for scholarships to students in architecture.

Thomas Louis Pinto.....Cleveland, Ohio

AMERICAN INSTITUTE OF ARCHITECTS SCHOLARSHIP. Through the cooperation of the American Institute of Architects Foundation, this scholarship is awarded to an outstanding student for graduate study.

David Neil Bowman.....Columbus, Ohio

AMERICAN INSTITUTE OF ARCHITECTS SCHOLARSHIP. Through the cooperation of the American Institute of Architects Foundation, these scholarships are awarded to outstanding students for undergraduate study.

Gaius Bliss Hershey.....Troy, Ohio
Anthony Clayton Rounds.....Dayton, Ohio

STOW AND DAVIS AWARD. Established by a gift through the Development Fund for an award for promising fourth year students on the basis of design.

WILLIAM RAY PLATE.....Wellsville, Ohio

Summer Student Internship with Smith, Haines, Lundberg and Waehler, Architects, New York City.

ROBERT JOSEPH VENNEMEYER.....Cincinnati, Ohio

KOPPERS COMPETITION. A student competition for the design of a building involving the use of a flat roof.

RONALD ADRIAN ATEN.....Greenville, Ohio
JOHN JAMES DIAMOND.....Columbus, Ohio
WILLIAM LEE HUFFMAN.....Columbus, Ohio
ANTHONY CLAYTON ROUNDS.....Dayton, Ohio
ROBERT JOSEPH VENNEMEYER.....Cincinnati, Ohio
WILLIAM FREDERICK YARGER.....Dayton, Ohio

FOURTH YEAR SPECIAL AWARD. The most improved student by class selection.

WILLIAM LEE HUFFMAN.....Columbus, Ohio

FIFTH YEAR SPECIAL AWARD.

THE FACULTY PRIZE. Awarded annually to outstanding students in Architecture, Landscape Architecture and City Planning.

4th Year: ANTHONY CLAYTON ROUNDS.....Dayton, Ohio
3rd Year: GAIUS BLISS HERSHEY.....Troy, Ohio
2nd Year: THOMAS LOUIS PINTO.....Cleveland, Ohio
1st Year: JERRY ALLEN WALTER.....Perry, Ohio

LANDSCAPE ARCHITECTURE

1966 ROADSIDE DEVELOPMENT COMPETITION. Sponsored by the Ohio Roadside Council, Inc., The Ohio Association of Garden Clubs and the Garden Club of Ohio, Inc. for students in planting design.

First: MART KIBENA.....Latrobe, Pa.
Second: THOMAS INGMIRE.....Roanoke, Indiana

CHARLES R. SUTTON MEMORIAL FUND. Given to a student in Landscape Architecture.

THOMAS H. MIKKELSON.....Columbus, Ohio

NATIONAL ENDOWMENT FOR THE ARTS. Given to an undergraduate student in Landscape Architecture.

ROBERT S. NETTLESHIP, JR.....Coshocton, Ohio

FACULTY PRIZE in Landscape Architecture.

THOMAS JOHN INGMIRE.....Roanoke, Indiana

CITY AND REGIONAL PLANNING

CITY PLANNING AND URBAN STUDIES FELLOWSHIPS of the Department of Housing and Urban Development.

ROY CHESTER WILLEY, JR.....St. Albans, W. Va.
CAROL WELKER FENTON.....Columbus, Ohio

FACULTY PRIZE in City and Regional Planning.

2nd Year: MICHAEL DENNIS HOCK.....Columbus, Ohio
1st Year: WILLIAM LEE TONER.....Cincinnati, Ohio

GRADUATING SENIORS

1966-67

BACHELOR OF ARCHITECTURE

Robert J. Apel
David G. Beaver
David N. Bowman
Gerald Cichanski
Eric H. Cookston
John F. Corkill
Paul D. Daniel
Howard S. Dworkin
William J. Eddy
George Enesey
Robert E. Euans
Fredrick S. Faber
Michael J. Fitzpatrick
Breton H. Hanville
Raymond M. Harpham
Fred A. Hurand
Richard L. Jones
James T. Kienle
John W. Payne
Robert J. Priefer
Edward A. Rhodes
George F. Schwab
William A. Smith
Steve D. Thomas
Gregor W. Touchman
Abdul A. Ujayli
Kent C. Underwood
James A. Upperman
Richard Walker
Jack G. Williams
John E. Williams
Dean R. Wolf
Cherry Yin
Peter K. Zelmer

BACHELOR OF LANDSCAPE ARCHITECTURE

Gary G. Bates
Frank M. Betsch
Robert A. Brittsan
James F. Herd
Thomas J. Ingmire
Ralph C. Liss
Carl U. Mueller
Jon L. Robins

MASTER OF ARCHITECTURE

Richard A. Badham
Keith E. Marty
Leon Seligson
Hillis A. Tewksbury

MASTER OF CITY PLANNING

Michael A. Calvert
Alexander D. Fittinghoff
Michael D. Hock
Arthur P. Martin
Richard F. Sale

SCHOOL OF ARCHITECTURE

THE OHIO STATE UNIVERSITY

STUDENT HONORS PROGRAM

SATURDAY, MAY 4, 1968

THE OHIO UNION

Speaker: TRUETT H. COSTON

Architect, Belhaven, North Carolina

AMERICAN INSTITUTE OF ARCHITECTS MEDAL. A silver medal, provided from the Henry Adams Fund of the A.I.A., is awarded annually to the graduating senior who has maintained the best scholastic average through the entire professional course. A citation is given to the medal winner and the next highest senior.

Medal and Citation: ANTHONY CLAYTON ROUNDS.....Dayton, Ohio
Citation: DONALD ROBERT HOOVER.....Grove City, Ohio

ALPHA RHO CHI MEDAL. Awarded annually to the graduating senior in architecture who has shown an ability for leadership, service for his school and gives promise of professional merit.

JOHN JAMES DIAMOND.....Columbus, Ohio

The Columbus Chapter, AMERICAN INSTITUTE OF ARCHITECTS AWARD. Awarded annually to a student of the Student Chapter of the A.I.A. on the basis of outstanding service to his profession.

HANS-HARALD GROTE.....Westerville, Ohio

The ARCHITECTS SOCIETY OF OHIO MEDAL. Awarded annually to an outstanding fourth year student.

MICKEY MELRAGON.....Columbus, Ohio

The Columbus Chapter, PRODUCERS' COUNCIL, INC., AWARD. Awarded annually to the graduating senior who has maintained a high scholastic average in the architectural construction courses.

DONALD ROBERT HOOVER.....Grove City, Ohio

JOSEPH N. BRADFORD MEMORIAL FUND. Established by gifts through the Development Fund from graduates of the School of Architecture, the income of which is used for a scholarship to be given annually to a talented and worthy student.

CHARLES PAUL CERNIGLIA.....Roosevelt, N. Y.

MERLE ROBERT MAFFIT MEMORIAL FUND. Established 1956 by gifts through the Development Fund from friends of Merle Robert Maffit, the income of which is to be used for scholarships to students in architecture.

MICHAEL LEE BALL.....Spencerville, Ohio

HOWARD DWIGHT SMITH SCHOLARSHIP. Established 1956 by gifts through the Development Fund from friends of Howard Dwight Smith, the income of which is to be used for scholarships to students in architecture.

JERRY ALLEN WALTER.....Perry, Ohio

AMERICAN INSTITUTE OF ARCHITECTS SCHOLARSHIP. Through the cooperation of the American Institute of Architects Foundation, this scholarship is awarded to an outstanding student for graduate study.

ANTHONY CLAYTON ROUNDS.....Dayton, Ohio

AMERICAN INSTITUTE OF ARCHITECTS SCHOLARSHIP. Through the cooperation of Desco International Association and the American Institute of Architects Foundation, this scholarship is awarded to an outstanding student for undergraduate study.

THOMAS LOUIS PINTO.....Cleveland, Ohio

STOW AND DAVIS AWARD. Established by a gift through the Development Fund for awards to promising fourth year students on the basis of design.

1st Award: JEFFREY M. KALBAN.....Freeport, N. Y.
2nd Award: JOHN A. STOCK.....Shaker Heights, Ohio

1968 GERMAN VILLAGE SOCIETY SCHOLARSHIP.

THOMAS EDWARD DRERUP.....Columbus, Ohio

1968 REYNOLDS ALUMINUM PRIZE.
School Prize: JOHN V. GRAUDUSS.....Dayton, Ohio
School Prize: RONALD A. STROHM.....Gahanna, Ohio

1968 SMITH, HINCHMAN AND GRYLLS ASSOCIATES SCHOLARSHIP.
HANS-HARALD GROTE.....Westerville, Ohio

1968 A.C.S.A. STUDENT EXCHANGE PROGRAM.
CHARLES P. CERNIGLIA.....Roosevelt, N. Y.
Sponsor, Tully, Hobbs and Partners
RUSSELL J. RULE.....Columbus, Ohio
Sponsor, Kellam and Foley
GERALD D. RUNKLE.....Toledo, Ohio
Sponsor, Brubaker and Brandt

SUMMER STUDENT INTERNSHIP with Smith, Haines, Lundberg and Waehler, Architects, New York City.
GAIUS BLISS HERSHEY.....Troy, Ohio

FOURTH YEAR SPECIAL AWARD. The most improved student by class selection.

THE FACULTY PRIZE. Awarded annually to outstanding students in Architecture, Landscape Architecture and City Planning.
4th Year: HANS-HARALD GROTE.....Westerville, Ohio
3rd Year: THOMAS LOUIS PINTO.....Cleveland, Ohio
2nd Year: JERRY ALLEN WALTER.....Perry, Ohio
1st Year: STEPHEN PAUL DIXON.....Tallmadge, Ohio

LANDSCAPE ARCHITECTURE

1967 ROADSIDE DEVELOPMENT COMPETITION. Sponsored by the Ohio Roadside Council, Inc., The Ohio Association of Garden Clubs and the Garden Club of Ohio, Inc. for students in planting design.
ROBERT A. BRITTSAN.....Wren, Ohio
THOMAS J. INGMIRE.....Roanoke, Indiana

CHARLES R. SUTTON MEMORIAL FUND. Given to a student in Landscape Architecture.
JAMES D. HOLTSCHULTE.....Columbus, Ohio

FACULTY PRIZE in Landscape Architecture.
RANDALL KENT MEYER.....Alexandria, Va.

CITY AND REGIONAL PLANNING

HUD FELLOWSHIP IN CITY PLANNING AND URBAN STUDIES.
ROY CHESTER WILLEY, JR.....St. Albans, W. Va.

PITTSBURGH PLATE GLASS FOUNDATION FELLOWSHIP IN CITY PLANNING.
MARY ELIZABETH BROOKS.....Stillwater, Oklahoma

AMERICAN INSTITUTE OF PLANNERS STUDENT AWARD.
JAMES WALTER WHEELER.....Shaker Heights, Ohio

FACULTY PRIZE in City and Regional Planning.
2nd Year: DENTON STILWELL HOPPER.....Hudson, N. Y.
1st Year: NILES CRAIG SCHOENING.....Louisville, Ky.

GRADUATING SENIORS

1967-68

BACHELOR OF ARCHITECTURE

Ronald A. Aten
James W. Bass
Charles J. Bornheim
Gary D. Cannella
Nelson R. Cragg
Eric N. Delony
John J. Diamond
John V. Grauduss
Leonard E. Grossman
Peter G. Homorody
Donald R. Hoover
William L. Huffman
Fred B. Kibbey
Judy L. Kitchen
Roger A. Kramer
Frank P. Marinace
Carolyn McCown
William R. Plate
George R. Pressler
Richard A. Rauh
Anthony C. Rounds
Robert G. Shepherd
Henry J. Sherowski
Harold M. Shrock
John R. Stegmiller
Ronald A. Strohm
Ronald J. Trick
Robert J. Vennemeyer
William F. Yarger

BACHELOR OF LANDSCAPE ARCHITECTURE

Roger D. Hubbell
Roger S. Moser
Robert S. Nettleship
William E. St. Clair, Jr.

MASTER OF ARCHITECTURE

Alfred E. Berthold
Michael W. Fazio

MASTER OF CITY PLANNING

Jerry L. Angell
James W. Blackburn
Charles H. Bogart
Frank L. Elmer
Robert E. Grasser
Nathaniel M. Griffin
George J. Papageorgiou
Bradford L. Pryce
Donald E. Reis
David O. Richardson
Mark Stein
Mohammed Sadiq Swati
James C. Tonn

SCHOOL OF ARCHITECTURE

THE OHIO STATE UNIVERSITY

STUDENT HONORS PROGRAM

SATURDAY, MAY 3, 1969

THE OHIO UNION

Speaker: JEANNE DAVERN

Managing Editor, Architectural Record

AMERICAN INSTITUTE OF ARCHITECTS MEDAL. A silver medal, provided from the Henry Adams Fund of the A.I.A., is awarded annually to the graduating senior who has maintained the best scholastic average through the entire professional course. A citation is given to the medal winner and the next highest senior.

Medal and Citation: HANS-HARALD GROTE.....Westerville, Ohio
Citation: CHARLES PAUL CERNIGLIA.....Roosevelt, N.Y.

ALPHA RHO CHI MEDAL. Awarded annually to the graduating senior in architecture who has shown an ability for leadership, service for his school and gives promise of professional merit.

MICKEY ANDREW MELRAGON.....Columbus, Ohio

The Columbus Chapter, AMERICAN INSTITUTE OF ARCHITECTS AWARD. Awarded annually to a student of the Student Chapter of the A.I.A. on the basis of outstanding service to his profession.

ROBERT G. UHLENHAKE.....Columbus, Ohio

The ARCHITECTS SOCIETY OF OHIO MEDAL. Awarded annually to an outstanding fourth year student.

GEORGE F. HENSCHEL.....Mount Kisco, N.Y.

The Columbus Chapter, PRODUCERS' COUNCIL, INC., AWARD. Awarded annually to the graduating senior who has maintained a high scholastic average in the architectural construction courses.

HERBERT D. BONNER.....Lakewood, Ohio

JOSEPH N. BRADFORD MEMORIAL FUND.. Established by gifts through the Development Fund from graduates of the School of Architecture, the income of which is used for a scholarship to be given annually to a talented and worthy student.

LESLIE R. GIROUARD.....Columbus, Ohio

MERLE ROBERT MAFFIT MEMORIAL FUND. Established 1963 by gifts through the Development Fund from friends of Merle Robert Maffit, the income of which is to be used for scholarships to students in architecture.

DAVID L. TRITT.....Cambridge, Ohio

HOWARD DWIGHT SMITH SCHOLARSHIP. Established 1956 by gifts through the Development Fund from friends of Howard Dwight Smith, the income of which is to be used for scholarships to students in architecture.

STEPHEN P. DIXON.....Tallmadge, Ohio

AMERICAN INSTITUTE OF ARCHITECTS SCHOLARSHIP. Through the cooperation of the American Institute of Architects Foundation, this scholarship is awarded to an outstanding student for graduate study.

CHARLES P. CERNIGLIA.....Roosevelt, N.Y.

AMERICAN INSTITUTE OF ARCHITECTS SCHOLARSHIP. Through the cooperation of Desco International Association and the American Institute of Architects Foundation, this scholarship is awarded to an outstanding student for undergraduate study.

THOMAS LOUIS PINTO.....Cleveland, Ohio

1969 REYNOLDS ALUMINUM PRIZE.

School Prize and National First Prize:

GERALD D. RUNKLE.....Toledo, Ohio

1969 SMITH, HINCHMAN AND GRYLLS ASSOCIATES SCHOLARSHIP.

JAMES E. CALHOUN.....Mansfield, Ohio

JOHN A. UHLIR.....Broadview Heights, Ohio

SUMMER STUDENT INTERNSHIP with Haines, Lundberg and Waehler, Architects, New York City.

RAYMOND J. LIBERATORE.....Niles, Ohio

FOURTH YEAR SPECIAL AWARD. The most improved student by class selection.

THE FACULTY PRIZE. Awarded annually to outstanding students in Architecture, Landscape Architecture and City Planning.

4th Year: THOMAS LOUIS PINTO.....Cleveland, Ohio

3rd Year: JERRY ALLEN WALTER.....Perry, Ohio

2nd Year: STEPHEN PAUL DIXON.....Tallmadge, Ohio

1st Year: JOHN A. UHLIR.....Broadview Heights, Ohio

LANDSCAPE ARCHITECTURE

1968 ROADSIDE DEVELOPMENT COMPETITION. Sponsored by the Ohio Roadside Council, Inc., The Ohio Association of Garden Clubs and the Garden Club of Ohio, Inc. for students in planting design.

Team 1.

JAMES D. HOLTSCHULTE

ROGER S. MOSER

ROBERT S. NETTLESHIP

WILLIAM B. ST. CLAIR, JR.

Team 2.

ROGER D. HUBBELL

RAYMOND C. KAPP

DONALD G. OLSON

WILLIAM R. SWANK

CHARLES R. SUTTON MEMORIAL FUND. Given to a student in Landscape Architecture.

RANDALL KENT MEYER.....Alexandria, Va.

FACULTY PRIZE in Landscape Architecture.

NEIL JUSTIN DEAN.....Euclid, Ohio

AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS Award of Merit.

THOMAS MIKKELSEN.....Columbus, Ohio

CITY AND REGIONAL PLANNING

AMERICAN INSTITUTE OF PLANNERS STUDENT AWARD.

DONALD WALTER LENZ.....Columbus, Ohio

FACULTY PRIZE in City and Regional Planning.

2nd Year: JOHN NICHOLAS WOELFL.....Parma, Ohio

1st Year: MICHAEL DAVID WILSON.....Mentor, Ohio

GRADUATING SENIORS

1968-69

BACHELOR OF SCIENCE IN ARCHITECTURE

Kenneth F. Bailey
Thomas E. Black
Herbert D. Bonner
Robert J. Corna
Bruce L. Hubbard
Darrel L. Rohrer
Philip C. Sager
Gary P. Turpening

BACHELOR OF ARCHITECTURE

Larry W. Alwood
Robert L. Bell
Charles P. Cerniglia
David L. Deal
William J. Drechsler
Hans-Harald Grote
Judson R. Herter
Hunter S. Hopson, Jr.
Richard L. Hungate
Robert A. Huth
Jeffrey M. Kalban
William L. Mann
Mickey A. Melragon
Charles L. Nickel
Constantine Pavlou
Russell J. Rule
Gerald D. Runkle
John A. Stock
Timothy F. Timberman
Gerald E. Tschabold
Sotireos Voyages
David A. Wolfberg
John H. Zaugg

BACHELOR OF LANDSCAPE ARCHITECTURE

James D. Holtschulte
Raymond C. Kapp
Thomas H. Mikkelsen
Donald G. Olson
William R. Swank

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